Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

The Record of Building Operations

Returns from 154 cities in the United States have been received and compiled regarding their building operations for 1914, and the previous year. The figures show that building is much better than generally supposed, especially in the Central States, where it is considered that in 154 cities having a population of 24,664,539, about half the total urban population of the country, plans were filed for buildings estimated to cost $771,017,852 in 1914, while operations calculated to cost $838,945,302 were planned in 1913.

In the Eastern States, 59 cities, the plans filed in 1914 called for $326,957,204, compared with $366,084,621 in 1913.

In 46 cities in the Central States the operations in 1914 were estimated at $290,281,422, compared with $292,128,028 in the previous year.

In 30 cities in the Southern States, the operation last year called for $57,532,371, compared with $66,572,691 in 1913.

On the Pacific Coast a heavy loss is noted, made up chiefly in one city. In 19 cities in the Western States the building returns in 1914 were $96,246,855, and in 1913 $114,159,962.

EASTERN STATES

Population Census of 1910	City	Building 1914	Operations 1913
100,253	Albany, N. Y.	$6,294,738	$9,051,758
52,127	Altoona, Penn.	1,077,725	1,016,428
31,267	Amsterdam, N. Y.	1,250,000	1,500,000
34,668	Auburn, N. Y.	352,432	301,104
558,485	Baltimore, Md.	11,823,376	9,110,824
48,443	Binghamton, N. Y.	2,225,646	1,942,790
670,585	Boston, Mass.	20,520,555	17,532,330
102,054	Bridgeport, Conn.	3,665,432	2,949,177
56,878	Brockton, Mass.	1,215,689	1,240,960
423,715	Buffalo, N. Y.	10,709,006	12,108,243
104,839	Cambridge, Mass.	6,300,105	6,588,685
22,754	Central Falls, R. I.	201,380	373,455
32,452	Chelsea, Mass.	722,150	440,775
38,537	Chester, Penn.	1,221,200	623,000
21,839	Cumberland, Md.	333,163	645,018
28,523	Easton, Penn.	851,000	910,000
34,371	East Orange, N. J.	1,763,586	1,712,981
73,409	Elizabeth, N. J.	1,346,933	2,479,664
64,186	Harrisburg, Penn.	1,269,500	1,467,040
98,915	Hartford, Conn.	4,044,481	5,795,351
44,115	Haverhill, Mass.	1,149,935	1,015,115
70,324	Hoboken, N. J.	768,342	492,260
57,730	Holyoke, Mass.	1,183,271	1,379,882
267,779	Jersey City, N. J.	3,501,505	5,551,245
18,659	Kearney, N. J.	535,755	729,978
47,227	Lancaster, Penn.	689,956	688,629
85,892	Lawrence, Mass.	1,088,730	741,560
70,063	Manchester, N. H.	1,586,347	1,652,889
23,150	Medford, Mass.	1,474,495	1,621,047
347,469	Newark, N. J.	9,472,409	16,317,973
96,652	New Bedford, Mass.	3,039,736	3,067,700
43,916	New Britain, Conn.	1,214,840	1,042,325
133,605	New Haven, Conn.	4,379,842	3,620,061
27,149	Newport, R. I.	565,466	1,049,128
28,867	New Rochelle, N. Y.	617,055	861,128
4,766,883	New York, N. Y.		
	Bronx	20,296,843	20,072,489
	Brooklyn	38,366,890	30,720,101
	Manhattan	45,470,965	72,970,685
	Queens	18,311,450	17,507,955
	Richmond	2,272,898	3,377,193
30,445	Niagara Falls, N. Y.	1,222,727	1,571,355
54,773	Passaic, N. J.	857,349	953,264
125,600	Paterson, N. J.	1,544,036	1,520,914
1,549,008	Philadelphia, Penn.	34,940,980	40,133,860
533,905	Pittsburgh, Penn.	18,194,682	15,353,848
20,550	Plainfield, N. J.	549,213	911,750
27,936	Poughkeepsie, N. Y.	692,040	1,077,785
32,642	Quincy, Mass.	1,417,443	1,158,022
96,071	Reading, Penn.	1,147,850	848,850
218,149	Rochester, N. Y.	8,733,257	9,634,124
129,867	Scranton, Penn.	3,409,920	1,430,231
88,926	Springfield, Mass.	4,905,034	5,303,620
28,836	Stamford, Conn.	1,601,231	1,305,100
137,249	Syracuse, N. Y.	2,838,973	4,521,198
96,815	Trenton, N. J.	1,736,502	2,068,093
76,813	Troy, N. Y.	480,880	2,566,178
74,419	Utica, N. Y.	1,791,482	4,452,947
27,834	Waltham, Mass.	590,490	472,655
67,105	Wilkes-Barre, Penn.	1,145,209	1,922,348
18,924	Wilkinsburg, Penn.	433,400	385,435
31,860	Williamsport, Penn.	255,335	685,995
145,986	Worcester, Mass.	4,808,353	4,902,613
44,750	York, Penn.	485,791	634,510
12,386,243		$326,957,204	$366,084,621

CENTRAL STATES

Population Census of 1910	City	Building 1914	Operations 1913
69,067	Akron, Ohio	$3,733,500	$5,226,925
29,807	Aurora, Ill.	985,921	783,865
45,166	Bay City, Mich.	404,135	391,765
25,768	Bloomington, Ill.	298,000	560,200
50,217	Canton, Ohio	1,405,445	1,006,025
32,811	Cedar Rapids, Iowa	1,788,000	1,816,000
2,185,183	Chicago, Ill.	$3,262,110	$9,169,077
363,591	Cincinnati, Ohio	8,785,158	8,331,327
560,663	Cleveland, Ohio	27,308,960	23,851,160
181,511	Columbus, Ohio	6,895,061	5,508,358

CENTRAL STATES—Continued

Population Census of 1910	City	Building 1914	Operations 1913
27,871	Danville, Ill.	467,504	421,268
43,028	Davenport, Iowa	1,872,172	1,428,921
116,577	Dayton, Ohio	2,642,569	4,000,000
86,368	Des Moines, Iowa	1,937,144	1,755,759
465,766	Detroit, Mich.	26,845,225	30,199,758
78,446	Duluth, Minn.	2,877,803	4,097,221
58,547	East St. Louis, Ill.	970,368	1,021,118
24,978	Evanston, Ill.	2,318,695	2,069,741
38,550	Flint, Mich.	800,000	500,000
63,933	Fort Wayne, Ind.	2,347,885	2,130,972
112,571	Grand Rapids, Mich.	3,621,919	4,168,000
35,279	Hamilton, Ohio	501,856	484,855
233,650	Indianapolis, Ind.	7,792,808	9,361,973
82,331	Kansas City, Kan.	1,076,563	1,252,859
248,381	Kansas City, Mo.	17,204,970	10,578,193
20,081	LeFayette, Ind.	735,000	191,014
43,973	Lincoln, Neb.	1,003,287	1,678,350
25,531	Madison, Wis.	1,374,634	1,372,882
378,857	Milwaukee, Wis.	9,783,921	13,619,559
301,408	Minneapolis, Minn.	15,214,525	12,857,935
24,199	Moline, Ill.	959,524	1,624,697
16,185	Norwood, Ohio	689,011	813,340
19,444	Oak Park, Ill.	2,311,490	2,344,393
124,096	Omaha, Neb.	4,610,456	4,110,733
66,950	Peoria, Ill.	3,269,220	2,588,517
22,324	Richmond, Ind.	400,000	500,000
77,403	St. Joseph, Mo.	627,574	876,003
687,029	St. Louis, Mo.	12,568,584	15,350,012
214,744	St. Paul, Minn.	13,651,986	9,441,221
50,510	Saginaw, Mich.	679,755	524,019
47,828	Sioux City, Iowa	1,972,952	2,076,058
51,678	Springfield, Ill.	1,056,320	804,014
40,384	Superior, Wis.	1,541,619	1,574,857
168,497	Toledo, Ohio	6,085,182	5,886,291
43,684	Topeka, Kan.	547,280	928,767
79,066	Youngstown, Ohio	3,055,221	2,849,006
7,763,931		$290,281,422	$292,128,028

SOUTHERN STATES

Population Census of 1910	City	Building 1914	Operations 1913
18,762	Asheville, N. C.	$776,017	$624,863
154,839	Atlanta, Ga.	4,637,352	5,110,324
20,640	Beaumont, Tex.	712,864	303,880
132,685	Birmingham, Ala.	3,143,250	5,966,851
34,014	Charlotte, N. C.	1,041,777	1,490,371
44,604	Chattanooga, Tenn.	1,057,087	1,046,930
20,554	Columbus, Ga.	487,516	428,174
52,270	Covington, Ky.	553,480	529,333
92,104	Dallas, Tex.	5,243,610	8,476,080
18,241	Durham, N. C.	854,684	252,105
39,279	El Paso, Tex.	1,934,697	1,341,264
23,975	Fort Smith, Ark.	158,464	446,782
73,312	Fort Worth, Tex.	2,181,931	2,113,553
31,161	Huntington, W. Va.	1,153,497	1,175,520
57,699	Jacksonville, Fla.	1,667,470	2,974,652
36,346	Knoxville, Tenn.	408,947	410,698
223,928	Louisville, Ky.	4,389,745	4,034,180
131,105	Memphis, Tenn.	2,946,764	4,094,358
51,521	Mobile, Ala.	573,135	607,145
25,278	Muskogee, Okla.	104,550	338,574
339,075	New Orleans, La.	2,959,751	4,092,828
30,309	Newport, Ky.	172,000	128,000
67,452	Norfolk, Va.	2,014,681	2,554,723
22,982	Pensacola, Fla.	446,719	375,341
127,628	Richmond, Va.	3,283,345	3,132,480
65,064	Savannah, Ga.	1,385,680	1,321,815
28,015	Shreveport, La.	1,270,957	1,352,172
37,782	Tampa, Fla.	1,373,071	1,484,064
18,182	Tulsa, Okla.	1,636,550	1,517,118
331,069	Washington, D. C.	8,962,780	9,270,513
2,349,875		$57,532,371	$66,572,691

WESTERN STATES

Population Census of 1910	City	Building 1914	Operations 1913
23,383	Alameda, Calif.	$345,563	$571,614
40,434	Berkeley, Calif.	1,821,100	2,236,700
17,358	Boise, Idaho	163,055	476,341
29,078	Colorado Springs, Colo.	444,350	411,628
213,381	Denver, Colo.	3,730,458	3,797,148
24,892	Fresno, Calif.	1,122,505	1,776,666
319,198	Los Angeles, Calif.	17,282,881	30,635,921
150,174	Oakland, Calif.	4,619,835	8,569,903
25,580	Ogden, Utah	840,680	894,811
64,205	Oklahoma, Okla.	1,972,442	174,727
30,291	Pasadena, Calif.	2,133,781	2,787,507
207,214	Portland, Ore.	9,334,075	12,972,090
44,696	Sacramento, Calif.	2,329,978	3,416,058
92,777	Salt Lake City, Utah	2,983,246	2,053,860
39,578	San Diego, Calif.	3,116,176	7,135,299
416,912	San Francisco, Calif.	28,177,572	21,036,264
237,194	Seattle, Wash.	12,655,600	9,321,115
104,402	Spokane, Wash.	984,047	3,428,208
83,743	Tacoma, Wash.	2,189,511	2,474,102
2,164,490		$96,246,855	$114,159,962

Building Operations in December

Comparison of building returns from plans filed are most misleading; in fact, they indicate a falling off, which is untrue. In the Eastern States a decrease of $16,000,000 is shown, but December, 1913, was abnormally large, both in Newark and the Borough of Manhattan, New York. The indicated loss in these two cities would about make up for the total loss in all of the Eastern cities from which returns are available. The operations are larger than in November, both 1914 and 1913.

In the Central States there is a loss of slightly more than $3,000,000, while in the Southern cities the loss amounts to a little more than $100,000. In the Western States returns in 1914 were practically the same as last year despite a falling off of $1,500,000 in Los Angeles.

EASTERN STATES

	Month of December 1914	1913
Albany, N. Y.	$330,460	$234,353
Baltimore, Md.	506,680	541,805
Boston, Mass.	3,323,862	1,389,260
Bridgeport, Conn.	186,424	236,665
Buffalo, N. Y.	347,000	1,284,000
Elizabeth, N. J.	33,518	140,816
Hartford, Conn.	284,605	260,995
Hoboken, N. J.	1,015	77,120
Jersey City, N. J.	193,735	440,297
Newark, N. J.	306,632	3,185,828
New Haven, Conn.	494,970	227,130
New York, N. Y.		
Manhattan	814,000	14,774,650
Bronx	251,500	1,029,348
Brooklyn	1,390,200	2,957,385
Queens	811,305	1,586,129
Paterson, N. J.	68,630	152,125
Philadelphia, Penn.	1,011,510	1,445,435
Pittsburgh, Penn.	3,473,100	800,248
Reading, Penn.	9,675	3,350
Rochester, N. Y.	363,599	725,185
Scranton, Penn.	1,769,163	150,988
Springfield, Mass.	197,502	495,649
Syracuse, N. Y.	145,403	193,975
Worcester, Mass.	108,540	347,655
Totals	$16,423,028	$32,671,391

CENTRAL STATES

Akron, Ohio	$136,020	$304,415
Chicago, Ill.	6,214,050	5,934,500
Cincinnati, Ohio	209,045	376,390
Cleveland, Ohio	1,216,775	2,071,780
Columbus, Ohio	1,005,200	432,550
Des Moines, Iowa	48,700	114,600
Detroit, Mich.	1,242,675	1,807,565
Duluth, Minn.	78,975	83,855
Grand Rapids, Mich.	125,750	150,605
Indianapolis, Ind.	219,460	701,469
Kansas City, Kan.	37,425	178,715
Kansas City, Mo.	223,600	472,695
Milwaukee, Wis.	393,410	644,463
Minneapolis, Minn.	521,400	1,148,645
Omaha, Neb.	216,475	149,475
St. Louis, Mo.	379,966	770,233
St. Paul, Minn.	510,640	705,184
Toledo, Ohio	139,945	199,320
Totals	$12,919,511	$16,246,459

SOUTHERN STATES

Atlanta, Ga.	$154,724	$216,001
Birmingham, Ala.	100,307	172,194
Chattanooga, Tenn.	9,950	48,780
Dallas, Tex.	110,025	238,450
Louisville, Ky.	188,330	137,820
Memphis, Tenn.	52,200	115,346
New Orleans, La.	274,172	202,133
Richmond, Va.	212,502	170,399
Tampa, Fla.	29,300	70,455
Washington, D. C.	433,036	396,957
Totals	$1,564,546	$1,678,535

WESTERN STATES

Denver, Colo.	$593,510	$59,171
Los Angeles, Calif.	651,639	2,150,951
Oakland, Calif.	278,891	528,681
Portland, Ore.	1,601,355	640,565
Salt Lake City, Utah	1,171,450	137,875
San Diego, Calif.	160,503	403,000
San Francisco, Calif.	717,903	1,956,339
Seattle, Wash.	1,298,165	549,735
Spokane, Wash.	18,700	63,625
Tacoma, Wash.	73,260	114,038
Totals	$6,565,376	$6,603,880

RAILWAYS

West Virginia—Baltimore & Ohio R.R.—According to press reports this company plans to extend its Palatine branch on the east side of Fairmont, W. Va. F. L. Stuart, Baltimore, Md., is Ch. Engr.

Florida—Atlantic Harbor R.R.—This company has been incorporated to construct a railway from Jacksonville to Fort George Island, Fla., about 30 miles. George J. Percival, Atlantic City, N. J., is Pres.

Louisiana—Monroe & Texas R.R.—This company has been incorporated to construct a railway from Monroe, La., through Ouachita, Jackson, Winn., Natchitoches and Sabine parishes to the Sabine River. The officers are F. R. Pierce, Pres., L. Brandt, Vice-Pres., C. L. Chesboro, Secy. and A. B. Pierce, Treas.

Kentucky—Paducah & Illinois R.R.—According to press reports this company has awarded a contract to MORSE, SHEPHERD & DOUGHERTY, St. Paul, Minn., for double-tracking its railway from Paducah, Ky., to the Ohio River, about 12 miles.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry.—According to press reports, this company is arranging for the construction of extensive railway yards about two miles north of Galion, Ohio. George P. Smith, Cincinnati, Ohio, is Ch. Engr.

Wisconsin—Chicago, Milwaukee & St. Paul Ry.—The Wisconsin Railway Commission recently ordered this company to make various improvements to its line in Milwaukee, Wis. These include grade separation work from 38th St. to Fond du Lac Ave., about 2¼ miles. C. F. Loweth, Chicago, Ill., is Ch. Engr.

Montana—Butte, Boise & San Francisco Ry.—This company plans to start work in the spring on the construction of its proposed railway to connect Butte, Mont., Boise, Idaho and San Francisco, Calif., about 1020 miles. This line will cross the continental divide three times but with no grades exceeding 2% and these for short distances only. The estimated cost of the line from Butte to Boise is about $55,000 per mile. L. O. Leonard, Boise, Idaho, is Pres. Noted May 28.

Idaho—Butte, Boise & San Francisco Ry.—See item under Montana.

Washington—Chicago, Milwaukee & Puget Sound R.R.—A contract has been awarded by this company, according to press reports, to HANS PEDERSON, Madison Blk., Seattle, for grading its line near Hoquiam, Wash.

Oregon—Valley & Sibletz R.R.—This company which operates a 20-mile railway from Airlie, Ore., plans to construct an additional 10 miles of track in the spring. R. L. Donald, Northwestern Bank Bldg., Portland, Ore., is Mgr.

California—Butte, Boise & San Francisco Ry.—See item under Montana.

ELECTRIC RAILWAYS

Monticello, N. Y.—The Monticello & Middletown Ry. Co. is making surveys and plans to start work soon on the construction of its proposed electric railway to connect Middletown, Wurtsboro, Rock Hill, Bridgeville, Monticello, White Lake and Methel, about 45 miles. Blake A. Mapledoram, Monticello, is Gen. Mgr. and Ch. Engr. Noted Dec. 31.

West Orange, N. J.—The town has granted permission to the Public Service Ry. Co. to construct and operate a street railway extension from the boundary line of West Orange and Orange to Valley St., West Orange. R. E. Danforth, Newark, is Gen. Mgr.

Easton, Penn.—The Council has granted permission to the Easton Transit Co. to reconstruct all its lines on the South Side. Harrison R. Fehr, Allentown, is Pres., Gen. Mgr. and Pur. Agt.

Norristown, Penn.—(Official)—The Reading Transit & Light Co. was recently granted permission to lay a grooved rail on DeKalb, Airy, Brown, Powell and Swede St. The work will be done under the direction of S. Cameron Corson, Borough Engr.

Warren, Penn.—According to press reports a syndicate of Cleveland, Ohio, capitalists plans the construction of an electric railway from Warren to Sharon, to connect with the Cleveland-Youngstown line.

New Castle, Del.—The Wilmington, New Castle & Delaware Ry. Co. is preparing to install about 5½ miles of new road bed on its line. W. E. Meyers, New Castle, is Gen. Supt.

Girard, Ga.—The Columbus R.R. Co. contemplates the construction of an electric railway in Lower Girard to complete the loop in Columbus. John S. Bleeker, Columbus. John S. Bleeker, Columbus, is Mgr.

Macon, Ga.—The Macon Ry. & Light Co. has applied to the City Council for a franchise to extend and relocate its lines in Macon. L. S. Boggs, Macon, is Gen. Mgr.

Rochester, Ind.—The United Public Service Co. has been incorporated to construct an electric railway in Rochester. The incorporators include John E. Beyer, Earl E. Beyer and Charles A. Davis.

Peoria, Ill.—The Illinois Traction System is preparing to double-track its Prospect Heights line in East Bluff. H. J. Vance, Peoria, is Pur. Agt.

Colfax, Iowa—The Des Moines Ry. Co. contemplates the extension of its line from Colfax to Newton. F. M. Harris, Des Moines, is Treas. and Pur. Agt.

Cannon Falls, Minn.—The St. Paul Southern Electric Co. proposes to construct an electric railway to connect Cannon Falls, Zumbrota, Pine Island and White Rock, about 30 miles. W. L. Sonntag, St. Paul, Minn., is Gen. Mgr.

Winsted, Minn.—Plans are being made by the Electric Short Line Ry. Co. for the completion of its electric railway to Winsted. DeKoven Hunter, Minneapolis, is Gen. Mgr.

Omaha, Neb.—The Omaha & Council Bluffs St. Ry. Co. is considering plans for the extension of its Harney line south from the Sixth St. terminus to Gibson. W. A. Smith, Omaha, is Vice-Pres. and Gen. Mgr.

Waco, Tex.—Plans are being prepared by the Southern Traction Co. to construct a one-mile extension south from Elm St. B. B. Stitcher, Dallas, is Gen. Mgr.

Nowata, Okla.—Plans are being considered by the Farmers' St. Car Association, Lincoln, Neb., for the construction of an electric interurban railway from Nowata to Vinita.

Provo, Utah—Plans are being prepared by the Salt Lake & Utah R.R. Co. for the construction of an electric railway to connect Provo, Springville and Payson, about 18 miles. W. C. Orem, Salt Lake City, is Pres. and Gen. Mgr.

Vancouver, Wash.—The Portland, Vancouver & Northern Ry. Co. has been incorporated to construct and operate an electric railway from Vancouver, Wash., to Portland, Ore. Henry Crass, Vancouver is Pres. and George W. Ford, Secy.

San Francisco, Calif.—Plans are being prepared by M. M. O'Shaughnessy, City Engr., for the construction of a municipal electric railway on Church St.

Montreal, Que.—The Montreal & Southern Counties Ry. Co. plans to extend its line to Youville St. in Montreal. W. B. Powell, Montreal, is Vice-Pres. and Gen. Mgr.

Regina, Sask.—The Regina Municipal Ry. Co. plans to construct a 1½-mile extension to its line this spring. D. W. Houston, Regina, is Supt.

LIGHT, HEAT AND POWER

Manchester, N. H.—It is reported that the Manchester Traction, Light & Power Co. is preparing to place its wires underground in the business section of the city. J. Brodie Smith is Vice-Pres. and Gen. Mgr.

†Lyndonville, Vt. — (Official) — The Village Board has awarded contracts for the hydro-electric equipment for its new power station to: The S. MORGAN SMITH CO., York, Penn., for two 450-hp. Francis type turbines in cast-iron spiral cases, each turbine to be regulated by Woodward oil pressure governor; GENERAL ELECTRIC CO., Schenectady, N. Y., for the complete electrical equipment.

Salem, Mass.—Press reports state that the Salem Electric Lighting Co. will construct an addition to its plant on Peabody St., Salem. S. F. Smith is Mgr. of the company.

New Britain, Conn.—Bids will be received until noon, Jan. 20, by Walter P. Crabtree, Arch., 272 Main St., New Britain, for the construction of a heating plant for the new vocational High School on Bassett St. It will be of brick, one story, 47x79 ft., with a 125-ft. chimney of either radial brick or reinforced concrete. Bids are to be received at the same time for the construction of the school building. Noted Nov. 12 and 26.

★Bath, N. Y.—(Official)—Bids will be received until 11 a.m., Feb. 2, by Joseph A. Goulden, Pres. Bd. of Trustees, New York State Soldiers & Sailors Home, Bath, for alterations to the electric plant at the Home. See advertisement under "Contracts to Be Let."

Buffalo, N. Y.—Press reports state that the Water Committee of the Board of Alderman has recommended awarding the contract for the electrical apparatus in the Porter Ave. pumping station to the Buffalo Electric Construction Co. at $48,900. The estimated cost of the complete plant is $95,000. Noted Dec. 24.

La Salle, N. Y.—The Village Board is considering the establishment of a municipal electric-light plant.

★Letchworth Village (Thiells post office), **N. Y.**—(Official) —Bids will be received until 11 a.m. Jan. 30, by Frank A. Vanderlip, Pres. Bd. of Mgrs., Letchworth Village, for heating, plumbing and electric work for the laundry building, and for the construction heating plant and underground piping, plumbing, drainage and electric work for a power house at the Letchworth Village. See advertisement under "Contracts to Be Let."

Atlantic City, N. J.—(Official)—Bids will be received until 2:30 p.m. Jan. 14, by the Board of City Commissioners for electrical conduits, including approximately the following: 4600 lin.ft. electrical conduit consisting of four "pump log" ducts with top board complete; 35 lin.ft. 2½-in. wrought-iron galvanized pipe; three 2½-in. brass check valves, and eight standard manholes complete. William H. Bartlett is Dir. of Pub. Safety. Frank Shinnen is Ch. of Electrical Bureau.

Branchville, N. J.—The Board of Chosen Freeholders of Sussex County, Newton, is considering the installation of an electric-lighting plant at the almshouse. Equipment with gasoline engine operation is being investigated.

Newark, N. J.—(Official)—The Public Service Electric Co. will establish a power plant to consist of four buildings at Point-no-Point on the Passaic River. The plans include a turbine room, 100x160 ft., a switchhouse, 70x110 ft., and a boiler house 120x160 ft., each to be 100 ft. high. Coal bunkers will be installed in a separate building. The estimated cost of the plant is $200,000. Noted July 2.

Winchester, Va.—It is reported that the Northern Virginia Power Co., Winchester, is considering plans for raising the concrete dam across the Shenandoah River at Millville, to increase the output of its hydro-electric plant at that point. D. M. Swink, Winchester, is Mgr. of the company.

Chester, W. Va.—It is reported that the City Clerk has been authorized to advertise for bids for the construction of a municipal electric-light plant.

†Wadley, Ga.—The City Council has awarded the contract for the construction of a municipal electric-light plant for which bonds were recently voted, to the SINGLETON SMITH CO., 405 Mulberry St., Macon, Ga.

Adairville, Ky.—It is reported that the village is considering the installation of an electric-light plant, replacing the acetylene-gas plant which was recently burned.

Cleveland, Ohio—Bids will be received until noon, Jan. 22, by the Commissioner of Purchases and Supplies, City Hall, for furnishing electric meters and paper insulated lead covered cable for the municipal light department. F. W. Ballard is Comr. of Heat and Light Dept., 1443 East Third St.

Lorain, Ohio—It is reported that plans for the installation of a municipal electric-light plant, to cost about $125,000, have been completed, and bids will soon be asked. D. D. Lewis is Dir. Bd. of Pub. Serv. Noted Nov. 19.

Lorain, Ohio—(Official)—Bids will be received until noon, Jan. 18, by the Board of Education for installing a heating and ventilating system in the high school building, Washington Ave. and Sixth St. E. Bruell is Clk. of the Bd.

Milford, Ind.—Emil Stroh has been granted a franchise for the installation and operation of an electric-light plant, and will purchase the necessary equipment.

†Bay City, Mich.—The Electric Light Committee of the City Council has awarded the contract for a new 1200-kw. electrical generator for the municipal electric-light plant to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn. William H. Fitzhugh is Secy., Mgr. and Supt. of the plant.

Carbondale, Ill.—Bids will be received until Jan. 21 by James B. Dibelka, State Arch., 29 South LaSalle St., Chicago, Ill., for the construction of a power plant, to cost about $40,000, for the State Normal University, Carbondale. The building will be of brick, one story, 38x51 ft.

Marshfield, Wis.—The American Gas Construction Co., Newton, Iowa, has offered an alternative to the Common Council of Marshfield: (a) To be granted a franchise to build, equip and operate an artificial gas plant as a private utility; (b) to construct the same plant, including 15 miles of gas mains, as a municipal property, at a contract price of $52,000. No decision has yet been announced.

New Richmond, Wis.—The State Railroad Commission has granted permission to the New Richmond Power Co. to issue $10,000 in bonds, the proceeds of which will be used for building new transmission lines and buying some new equipment. O. W. Mosher, New Richmond, is Secy. and Mgr.

Turtle Lake, Wis.—It is reported that plans are being considered for the construction of a municipal electric-light plant.

Mapleton, Minn.—A company has been organized by local business men to take over the electric-light plant owned by C. L. Sellers. The company will be known as the Mapleton Electric Co., and will apply for a 30-year franchise to operate in Mapleton. V. J. Creiner is Pres. and E. Sellers is Mgr. of the new company.

St. Joseph, Mo.—Press reports state that plans are under consideration for the construction of an addition to the boiler house of the plant of Swift & Co. The cost of the improvement is estimated at $100,000. The building will be of reinforced concrete, and six 500-hp. boilers will be installed with room for two more. Alden B. Swift is Local Mgr.

Glenwood, Ark.—It is reported that O. E. Grimes and associates, Tulsa, Okla., have secured options on land along Caddo Creek for the purpose of building a hydro-electric plant capable of developing about 2500-hp. The cost is estimated at $250,000.

Wolfe City, Tex.—The Wolfe City Light Co. has been organized with a capital stock of $6000 to build an electric-light and power plant. M. Tasker is interested.

Mogollon, N. M.—It is reported that the Socorro Mining & Milling Co. will spend about $90,000 in completing its electric power plant at Mogollon.

Sandpoint, Idaho—Press reports state that the Idaho Power & Concentrating Co., Sandpoint, is considering the addition of a hydro-electric unit to its plant.

Soda Springs, Idaho—At a recent special election, the citizens voted in favor of a bond issue of $15,000 to be used for the establishment of a municipal electric-light plant. Paul Tipton is City Clk.

Phœnix, Ariz.—The Falls Power & Electric Co., a coöperative concern composed of farmers residing northeast of this city has obtained a franchise for the construction of an electric transmission line from the Arizona Falls power plant to supply power to a number of irrigation pumping plants and for other industrial purposes.

Oka, Que.—The Bishop of the Monastery of Oka has engaged Fred M. Hoadley, Consult. Engr., Montreal, Que., to report upon the possibilities of building a hydro-electric plant on the river adjacent to the monastery. The energy generated at the proposed plant will be used for all purposes in the institution.

BRIDGES

Beverly, Mass.—The Board of Aldermen is considering two plans for a new bridge over the railway tracks at School St. A steel bridge with concrete floor and concrete covering for the steel work beneath the floor is estimated to cost $7700, while a steel bridge with wood floor and exposed steel can be built for $5800.

Bridgeport, Conn.—Tentative plans have been prepared by Alfred H. Terry, City Engr., for the construction of a bridge over the Pequonnock River between Grand and Arctic St. The estimated cost is $232,150. The plans call for a bridge 50 ft. wide, with a double leaf lift span of 80 ft., and two steel deck spans of 52 ft. each. Mr. Terry has also recommended a new bridge, 60 ft. wide, at East Washington St., to cost about $160,000. The Board of Aldermen is holding these plans in abeyance. Noted Oct. 8.

Cobleskill, N. Y.—At a recent special town meeting, the citizens voted in favor of building a new bridge over Cobleskill Creek.

★†Atlantic City, N. J.—The Board of Chosen Freeholders of Atlantic County has awarded the contract for the construction of a 386-ft. bridge over Hospitality Creek on the Somers Point-Longport Blvd., to EDWARD FAY & SON, at $25,000. A. H. Nelson, 636 Guarantee Trust Bldg., Atlantic City, is County Engr.

New Castle, Penn.—It is reported that plans are being prepared for a new bridge over Neshannock Creek at South Jefferson St. C. E. Brown is City Engr.

★Baltimore, Md.—(Official)—Bids will be received until noon, Jan. 19, by the State Roads Commission, 601 Garrett Bldg., for about 1.5 miles of sheet asphalt for the Hanover St. Bridge and approaches, Contract No. Bc17-Sec. 6: and at the same time for the construction of two reinforced-concrete bridges over the main branch of the Patapsco River between Baltimore and Anne Arundel Counties, one to have sixteen 30-ft. and one 32-ft. spans; the other to be composed of seven 15-ft. spans. Contract No. Bc17-Secs. 7 and 8. O. E. Weller is Chn. of the State Roads Comn. See advertisement under "Contracts to Be Let."

†Richmond, Va.—(Official)—The Circuit Court of Henrico County has awarded the contract for the construction of a reinforced concrete bridge over the Chickahominy River between Hanover and Henrico Counties to BERKELEY & SCHMIDT, Richmond, Va. S. P. Waddill is Clk. of Henrico County. Noted Dec. 24.

Fayetteville, N. C.—(Official)—The Commissioners of Cumberland County have postponed indefinitely the matter of

building a number of concrete bridges in the county at an estimated cost of from $25,000 to $30,000. R. P. Bolton is Register of Deeds for Cumberland County. Noted Oct. 1 and 22.

Rome, Ga.—The Commissioners of Roads and Revenue of Floyd County have engaged Greiner & Whitman, 1308-1310 Fidelity Bldg., Baltimore, Md., as Engr. in Charge, and William C. Spiker, 1123 Hurt Bldg., Atlanta, Ga., as Associate Engr., to prepare plans and supervise the construction of three bridges, at an estimated total cost of $200,000. Kieffer Lindsey is County Engr. of Floyd County. Noted Dec. 3.

Clearwater, Fla.—The Indian Rocks Realty Co. has been granted a permit to build a bridge over the channel at Indian Rocks. It is proposed to build a steel drawbridge. Noted June 4, 1914.

✝Jacksonville, Fla.—The contract for the construction of a reinforced concrete viaduct over the marsh, Hogan Creek and the tracks of the Seaboard Air Line and the St. Johns River Terminal Co. has been awarded to the HILLYER & SPERRING CO., Jacksonville, at about $120,000. Noted Aug. 7 and Dec. 25, 1913: Aug. 6, 1914.

✝Eufaula, Ala.—The Board of Revenue, of Barbour County, Clayton, has awarded the contract for the construction of a 216-ft. reinforced concrete bridge over Barbour Creek to J. H. SCRUGGS & C. E. ARD, Birmingham, at $6000. R. P. Boyd, Montgomery, is Asst. State Engr. Noted Dec. 10 and 17.

✝Greenville, Miss.—(Official)—The Board of Supervisors of Washington County has awarded the contract for the construction of 18 steel bridges of from 32- to 70-ft. span in the Bogue Phalia Drainage District to the W. T. YOUNG BRIDGE CO., Nashville, Tenn., at $8928. The Morgan Engineering Co., Memphis, Tenn., is Engr. of the district. Noted Oct. 1 and 15, Dec. 17.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Feb. 5, by the Board of Commissioners of Hamilton County, for checkered steel plate covering over eyebars of the lower trusses of the Cleves Bridge Miami and Whitewater Townships. Albert Reinhardt is Clk., Bd. of Comrs.

Columbus, Ohio—(Official)—Bids will be received until noon, Feb. 5, by the Board of Commissioners of Franklin County for constructing the approaches to the Williams Bridge in Perry, Norwich and Franklin Townships, Engineer's Estimate No. 152, and for constructing the Brand Bridge over the north fork of Indian Run, Washington Township, Engineer's Estimate No. 153. John Scott is Clk. of Comrs. Noted Dec. 10 and Jan. 7.

✝Covington, Ind.—(Official)—The Board of Commissioners of Fountain County has awarded the contract for the construction of a steel bridge with concrete abutments and piers, over the Wabash River at Covington, to the VINCENNES BRIDGE CO., Vincennes, Ind., at $28,250. H. W. Newton is County Audr. Noted Dec. 24.

Laporte, Ind.—Bids will be received until Jan. 15, by the Board of Commissioners of LaPorte County for the construction of 12 steel bridges on concrete abutments, ranging from 24 to 46 ft. in length.

✝Danville, Ill.—The City Council has awarded the contract for the construction of a reinforced concrete bridge over the North Fork of the Vermillion River at Bridge St. to J. J. JOBST, Peoria, at $80,000. The bridge will be about 800 ft. long and 40 ft. wide. Noted Sept. 24, Oct. 8, Nov. 12 and Dec. 10.

Pecatonia, Ill.—(Official)—Bids will be received until 1:30 p.m., Jan. 27, by the Town Clerk of Pecatonia, for the construction of two reinforced-concrete bridges, the Slough Bridge, Pecatonia Township, and the Denny Bridge, Seward Township, both in Winnebago County. J. S. Tarbert is Town Clk.

✝Ladysmith, Wis.—The County Highway Commissioner of Rusk County has awarded the contract for a 350-ft. bridge over the Chippewa River to the WAUSAU IRON WORKS, Wausau, Wis., at $9769.

✝Viroqua, Wis.—The County Highway Commissioner of Vernon County has awarded the contract for the construction of a 120-ft. steel bridge over the Kickapoo River near Seeleysburg, to the WORDEN-ALLEN CO., Milwaukee, at $4874.

✝Ottawa, Kan.—The Board of Commissioners of Franklin County has awarded the contract for the construction of a bridge over the Marais des Cygnes River near Richter to the CANTON BRIDGE CO., Kansas City, Mo., at $8985. Noted Nov. 12, Dec. 10 and 31.

✝Yates Center, Kan.—(Official)—The Commissioners of Woodson County have awarded the contract for the construction of the Plum Creek Bridge, Owl Creek Township, to C. A. CRAINER, Yates Center, and for the Pierson Bridge, Eminence Township, to the CANTON BRIDGE CO., Kansas City, Mo. T. T. Davis is County Clk. Noted Dec. 24.

Wayne, Neb.—Bids will be received until Jan. 19 by C. W. Reynolds, Clk. of Wayne County, for the construction of steel or corrugated culverts in the county during 1915.

St. Louis, Mo.—The Sureme Court of Missouri has decided that the Missouri Pacific Ry. must bear the entire expense of constructing a reinforced concrete viaduct at the Chouteau Ave. crossing, in connection with the work of the separation of grades at this point. J. R. Stephens, St. Louis, Mo., is Ch. Engr. of the Missouri Pacific Ry.

Glenwood, Ark.—It is reported that the Board of Commissioners of Pike County, Murfreesboro, is considering a petition to build an additional steel bridge over Caddo Creek at Glenwood. The local bridge committee is composed of K. E. Halliman, William Fagan and M. L. Turner.

San Antonio, Tex.—It is reported that the Commissioners Court of Bexar County has authorized the County Auditor to advertise for the construction of a 70-ft. bridge over the Medina River at the Applewhite crossing. The cost is estimated at $5500.

San Antonio, Tex.—(Official)—We are advised by Hal Helland, City Engr., that the City Council is not at present considering the construction of a reinforced concrete bridge over the San Antonio River at Garden St. Noted Dec. 24.

✝Pawnee, Okla.—(Official)—The Board of Commissioners of Pawnee County has awarded the contract for the construction of a steel bridge in the county, to the OREGON BRIDGE CO., Lebanon, Ohio, and Oklahoma, Okla.

Pueblo, Colo.—Press reports state that bids will be received until Jan. 18, by John M. Jackson, City Clk., for repairs to the First St. Bridge over the Fountain River.

Chehalis, Wash.—Bids will be received until Feb. 3 by the Commissioners of Lewis County for the construction of three steel bridges, one wooden bridge and one trestle.

Spokane, Wash.—The Engineering Department of Spokane County has recommended to the County Commissioners the construction of a concrete bridge over the Spokane River at Nine Mile, instead of the steel and wood structure originally contemplated. The latter structure would cost $15,000, while a concrete bridge will cost $21,000. Charles McClung is Deputy County Engr.

Dallas, Ore.—Polk County has included in its budget for 1915 the sum of $70,000 to pay its share of the cost of the proposed bridge over the Willamette River between Polk and Marion Counties. The bridge will cost about $210,000, and the expense will be equally shared by the two counties and the city of Salem. Plans were prepared by H. L. Bowlby, State Highway Engr. Noted Aug. 6, Sept. 3 and Dec. 3, under Salem, Ore.

Portland, Ore.—Bids will soon be asked for three concrete bridges on the Columbia Highway in Multnomah County, to span Moffatt, Pierce and Tanners Creeks. H. L. Bowlby, Salem, Ore., is State Highway Engr.

★Portland, Ore.—(Official)—Bids will be reecived until 2 p.m., Feb. 23, by the Columbia River Interstate Bridge Commission, for the construction of the Columbia River Interstate Bridge and approaches. W. N. Marshall is Secy. of the Comn. For details, see advertisement under "Contracts To Be Let." Noted Oct. 16, 1913, Jan. 15 and Nov. 26, 1914.

Glendale, Calif.—The lowest bid received by the City Trustees for the construction of a bridge over Verdugo Wash on Canada Blvd., was that of Mesmer & Rice, Marsh-Strong Bldg., Los Angeles, at $28,200. The work also includes 4400 lin.ft. of protection work. Noted Jan. 29 and Sept. 17.

Fredericton, N. B.—Bids will be received until Jan. 18, by John Morrison, Minister of Pub. Wks., Fredericton, for rebuilding the Great Salmon River Mouth Bridge, Parish of St. Martin's, St. John County, N. B.

Calgary, Alta.—(Official)—Bids will be received until 10 a.m., Feb. 12, by J. M. Miller, City Clk., for furnishing and erecting about $40,000 worth of steel for the superstructure of a bridge over the Bow River at Ninth St., W. There will be four trusses, each 135 ft. long and weighing 400 tons. George Craig is City Engr. Noted June 4, 1914.

WATER SUPPLY—IRRIGATION

Boston, Mass.—Bids will be received until Jan. 20, by the Supply Department, for 725 tons of iron castings and 32 tons of composition castings for the Water Department. D. Frank Doherty, City Hall, is Supt.

✝Boston, Mass.—The contract for 3965 tons of 4- to 30-in. water pipe and specials has been awarded to STANDARD CAST IRON PIPE & FOUNDRY CO., Bristol, Penn., at $85,170. Other bidders were: Florence Iron Works, $85,468; Warren Foundry Co., $92,711; and United States Cast Iron Pipe & Foundry Co., $77,149. D. Frank Doherty is Supt. of Supply Dept. Bids opened Jan. 6. Noted Dec. 31.

Meriden, Conn.—Bids will be received until Jan. 19 by the Board of Public Works for the construction of a pump house complete at Hough Mills. Plans are on file with W. S. Clark, City Engr.

★Bedford Hills, N. Y.—(Official)—Bids will be received until 2 p.m., Jan. 29 by James Wood, Pres. Bd. of Mgrs., New York State Reformatory for Women, Bedford Hills, for constructing a new large open well at Bedford Hills. For details see advertisement under "Contracts to Be Let."

Clyde, N. Y.—According to press reports the Clyde Water Works Co. contemplates selling its water works to the village. W. R. Vrooman is Pres. of the Village.

✝New York, N. Y.—(Borough of the Bronx)—(Official)—The contract for dismantling and transporting pumping engine from the Baldwin station to 179th St. station, has been awarded to CHRISTOPHER NALLY, 710 Columbus Ave., New York, at $6875. Noted Jan. 7.

Port Henry, N. Y.—The citizens plan to spend $12,000 for the enlargement of the water system. A. C. Linden is Clk., Bd. of Trustees.

Peapack, N. J.—The boroughs of Peapack and Gladstone plan to construct a municipal water system.

★Philadelphia, Penn.—(Official)—Bids will be received until Feb. 9 at Room 216 City Hall, Philadelphia, for a sedimentation basin at the Torresdale filters. Plans are on file at Room 701, City Hall, Philadelphia.

✝Philadelphia, Penn.—The contract for c.-i. water pipe, hydrants and specials has been awarded by the Board of Public Works to STANDARD CAST IRON PIPE & FOUNDRY CO., Bristol, at $7000.

✝Reading, Penn.—The following contracts have been awarded by the Council for supplies for the water department: c.-i. pipe and specials to R. D. WOOD & CO., $29,207; meters, THOMPSON METER CO., $11,475; gate valves, EDDY VALVE CO., $2730, and fire hydrants to EDDY VALVE CO., $650.

Takoma Park (Washington post office), **D. C.**—The Water and Sewer Commission has recommended to the Town Council the construction of a reservoir and improvement of the water

system. The estimated cost is $10,000. H. Stevens, 208 Union Trust Bldg., Washington, is Engr.

Shadyside, W. Va.—According to press reports an election will soon be held to vote on the question of issuing $45,000 in bonds, the proceeds of which will be used for the construction of a municipal water system. Noted Nov. 19.

Columbus, S. C.—(Official)—Bids will be received until 10 a.m., Jan. 29, by the City Commissioners, for making extensions to the water system. F. C. Wyse is Engr. and Supt. Noted Nov. 26.

Atlanta, Ga.—W. Zode Smith, Gen. Mgr. of the water-works, has recommended to the City Council an expenditure of $500,000 for the installation of two pumps for the water-works.

Clearwater, Fla.—Bids will be received until Jan. 15, by R. T. Daniel, City Clk., for making extensions to the municipal water system. Noted June 11 and Nov. 19.

†Seabreeze, Fla.—The contract for constructing a water system has been awarded to F. S. PERHAM, Jacksonville, Fla., at about $15,000. C. M. Rogers, Daytona, is Engr. Noted July 9.

Tarpon Springs, Fla.—The contract for a 50-hp. Diesel engine and a 500-gal. triplex pump has been readvertised and bids will be received until Jan. 18, by A. F. Albaugh, Pres. of the Council. The J. C. McCrary Co., Atlanta, Ga., is Engr. Noted Dec. 31.

†Binghamton, Tenn.—The contract for making extensions to the water and sewer systems has been awarded to J. W. BLAKE, at $8000.

Dyersburg, Tenn.—(Official)—The city contemplates purchasing a 1,000,000-gal. two-stage centrifugal pump directly connected to a 2300-volt three-phase motor for the water and light department. S. R. Blakeman is Supt.

Louisville, Ky.—Plans have been prepared, according to press reports, for the construction of a 24-in. water main, two miles long, for the Louisville Water Co. The estimated cost is $175,000. W. O. Head is Pres. of the company.

†Cincinnati, Ohio—The contract for c.-i. water pipe and specials has been awarded to UNITED STATES CAST IRON PIPE & FOUNDRY CO., Chicago, Ill., at $54,490. Bids opened Dec. 30. Noted Dec. 24.

†Newark, Ohio—The contract for furnishing 500 meters has been awarded by the Director of Public Service to THOMSON METER CO., Brooklyn, N. Y.

Zanesville, Ohio—(Official)—The W. J. Sherman Co., Nasby Bldg., Toledo, Ohio, has been retained by the city of Zanesville to prepare plans for improvements to the municipal water system. Noted Dec. 24.

†South Bend, Ind.—(Official)—Bids were received Dec. 20, by the Board of Public Works, for c.-i. pipe and specials for 1915, as follows: LYNCHBURG FOUNDRY CO., Lynchburg, Va., for c.-i. pipe from 4- to 12-in., at $21.70 (awarded contract); American Cast Iron Pipe Co., 6- to 24-in., $23.11; Massillon Iron & Steel Co., 6- to 12-in., $22.75; U. S. Cast Iron Pipe & Foundry Co., 4-in., $24., 6-in. and up, $22; R. D. Wood & Co., and Glamigan Pipe & Foundry Co. J. R. Hazinski is City Clk. Noted Dec. 17.

Anna, Ill.—(Official)—Bids will be received until Feb. 3, by E. S. Alden, Pres., Bd. of Local Impvt., for making extensions to the water system. The estimated cost is $8000. Noted Dec. 31.

Ipava, Ill.—The city plans to spend $6000 for the improvement of the water system and for making extensions.

†Iowa Falls, Iowa—The contract for laying water mains and sewer pipe has been awarded to MOORE & MOORE, Waterloo, Iowa, at $23,828. Bids opened Dec. 29. Noted Nov. 26 and Dec. 24.

Linn Grove, Iowa—The installation of a water system is under consideration.

Gilbert, Minn.—Two plans are being considered by the village officials for the installation of a new water supply.

Fort Scott, Kan.—We have been advised that bids will be received in February for the construction of a mechanical filtration plant. Noted Oct. 29 and Dec. 31.

Manhattan, Kan.—Plans are being prepared by Worley & Black, Kansas City, Mo., for the installation of a water system, estimated to cost $50,000. Fred Walter is City Engr.

Broken Bow, Neb.—According to press reports plans have been prepared by Charles F. Sturtevant, Holdredge, for the construction of a water system, estimated to cost $15,000.

Hayti, S. D.—The citizens contemplate installing a municipal water system, estimated to cost $8000.

Billings, Mont.—(Official)—Bonds for $450,000 have been sold, the proceeds of which will be used for the construction of a water system. C. E. Durland is City Engr. Noted Nov. 12 and Dec. 10.

Benton, Ark.—See item under "Sewers."

Gurdon, Ark.—Plans have been prepared and submitted to the Council for the installation of a municipal water, sewer and electric light systems. The estimated cost is $102,000. Bonds have not yet been voted. A. C. Moore, Bartlett Bldg., Joplin, Mo.

Harrison, Ark.—An election called for Dec. 22 has been postponed until March. The question of voting bonds for $90,000, the proceeds of which will be used for the purchase and enlargement of the water system, will be voted on. George C. Frew is Mayor. Noted Nov. 5.

Redrock, Okla.—An election will be held Jan. 28 to vote on the question of issuing about $30,000 in bonds, the proceeds of which will be used for the construction of a municipal water system. The Benham Engineering Co., Oklahoma, Okla., is Engr. Noted Dec. 24.

Alburquerque, N. M.—A report on the installation of a municipal water system has been submitted by the Council Committee. Noted Dec. 24.

Miami, Ariz.—The Inspiration Consolidated Copper Co. plans to build a pumping station for supplying water for its ore plant. A 226,000-gal. steel tank will be erected and a 20-in. pipe line constructed.

Phoenix, Ariz.—The Queen Creek Power & Water Co., recently incorporated by John Schrock, Wichita, Kan., and others, with a capital of $750,000, plans to build an irrigation system near Higley.

Milwaukee, Ore.—The following bids have been received for construction of three miles of water mains to connect with the Bull Run water system: Giebisch & Joplin, Portland, $16,469; James Kennedy Construction Co., $17,272; $16,313; Andrew & Harrar, $17,145; V. R. Dennis, $19,132; Heinicke Bros., $17,443; J. F. Shea, $16,955; Jacobson-Bade Co., $16,422; Elliott Contracting Co., $17,902. A temporary injunction has been issued restraining the Council from entering into a contract for the work. Noted May 21 and Jan. 7.

Glendora, Calif.—Bids will be received until Jan. 18, by the Board of Trustees, for 28,000 ft. of w.-i. pipe, black-dipped; gate valves and fire hydrants. F .G. Dessery is City Engr.

San Diego, Calif.—The Water Department has been authorized by the Council to proceed with the construction of the Pine Creek diverting dam. The estimated cost is $705,000.

Brantford, Ont.—(Official)—We have been advised that at the recent election bonds for $100,000 were voted. The proceeds of this sale will be used to pay for the completion of the water system, most of the work of which has been done. T. H. Jones is City Engr. Noted Dec. 17.

Essex, Ont.—The Council contemplates making extensions and improvements to the water system, at an estimated cost of $6500. W. D. Beaman is Clk.

Ottawa, Ont.—The city will spend $425,000 to construct the Lea distribution system, bonds for which have been voted. R. S. Lea and W. S. Lea, Montreal, Que., have prepared the plans. Noted Nov. 19.

Port Dalhousie, Ont.—At a recent election the citizens voted in favor of issuing bonds for $50,000, the proceeds of which will be used for the construction of a water system.

Saanichton, B. C.—According to press reports bids will be received soon for the construction of a new water system, estimated to cost $375,000. Bonds for this purpose have been voted. Noted Oct. 1 and 15.

Vancouver, B. C.—According to press reports bids were received Dec. 28, by the City Council, for making extensions to the water system of West Vancouver, as follows: Ledingham & Cooper, $115,661; Pacific Bridge Co., $114,779; Cotton & Co., $112,354; W. Greenless, $124,354; McDougal & Co., $109,968; and Naylor Bros., $138,554. The two bidders for constructing a dam, trestle and trench were: F. Davis, $64,483 and Vancouver Wood Pipe Co., $57,249. Noted Dec. 24.

SEWERS

Boston, Mass.—Bids will be received until Jan. 21 by the Public Works Department for the construction of the Dorchester Brook sewer. L. K. Rourke is Comr.

Boston, Mass.—Bids will be received until Jan. 18 by the Public Works Department for cleaning 7700 catch basins in various parts of the city. L. K. Rourke is Comr.

West Hartford, Conn.—Bids were received Dec. 23 by the Board of Selectmen for constructing the Boulevard sewer system as follows: (a) Small tile; (b) large tile: Petrossi Bros., (a) $27,939; (b) $28,804; R. T. Ryan, Hartford, (a) $28,004; (b) $28,768; O'Neill Bros., (a) $30,005; (b) $30,290; C. H. Slocum, (a) $30,792; (b) $31,208; Pierson Construction Co., Bristol, (a) $35,170; (b) $35,593.

New York, N. Y.—(Borough of Richmond)—Bids will be received by Charles J. McCormack, Pres. of the Borough until noon, Jan. 19, for constructing a temporary combined sewer in 12th St. and a reinforced-concrete receiving basin on the north side of Richmond Terrace.

Syracuse, N. Y.—Plans are being prepared by the Engineers of the Intercepting Sewer Board for the sewer treatment plant to be constructed on the shores of Onondaga Lake.

†Syracuse, N. Y.—Press reports state that the contract for constructing a system of storm water sewers in the First and Second Wards has been awarded to the C. T. HOOKWAY CO. at $60,000.

★Newark, N. J.—(Official)—Bids will be received until 2 p.m., Feb. 2, by the Passaic Valley Sewerage Commissioners, Essex Bldg., Newark, for the construction of the southerly portion of Section 18 of the Main Intercepting sewer in Paterson. John S. Gibson is Clk. For details see advertisement under "Contracts to Be Let," Paterson.

★†Paterson, N. J.—The contract for constructing Section 17, Central Portion of the Main Intercepting sewer has been awarded to the NEW YORK & NEW JERSEY CONSTRUCTION CO., 30 East 42d St., New York, at $179,531. Noted Dec. 3 and Jan. 7.

★Paterson, N. J.—(Official)—Bids were received Jan. 5 by the Passaic Valley Sewerage Commissioners for constructing Section 18, central portion, of the Main Intercepting Sewer as follows: Fusco Construction, Newark, $220,440; Harrison & Craig Co., Newark, $200,600; New York & New Jersey Construction Co., New York, $166,570; Mason, Hilton & Co., New York, N. Y., $158,450. Noted Dec. 17.

★Allentown, Penn.—The lowest bid submitted was that of Frank Cannon, Allentown, at $15,906, for the construction of the 14th Ward storm sewer. Noted Dec. 3.

Baltimore, Md.—(Official)—Bids were received on Sanitary Contract No. 143, Section 8, of the west low level interceptor as follows: Smith & Ruggles, Baltimore, $29,754; M. O'Herron & Son, Baltimore, $30,175; Ryan & Reilly Co., Baltimore, $30,314; James Ferry & Sons, Baltimore, $34,858; Carezza Bros. & Co., Baltimore, $39,252.

Sandusky, Ohio—(Official)—Bids will be recived by John J. Molter, Dir. of Pub. Ser., until noon, Feb. 1, for constructing a storm and sanitary sewer in Monroe St. Noted Dec. 31.

Janesville, Wis.—Press reports state that plans are being prepared by C. V. Kerch, City Engr., for constructing several miles of sewers.

Superior, Wis.—All bids received for the construction of a sewer between Catlin and Fisher Ave., from Broadway to 14th St., were rejected, as they exceeded the appropriated amount. Noted Dec. 31.

†Iowa Falls, Iowa—See item under "Water Supply—Irrigation."

†Hibbing, Minn.—A contract for constructing the storm water and sanitary sewers in the Alice addition has been awarded to BUTLER & COONS CONTRACTING CO., Hibbing. Noted Dec. 31.

St. Paul, Minn.—According to press reports the City Council has decided to construct a sewer on the east of Snelling Ave., from Fairmount Ave. to St. Clair St., and on Fairmount Ave., from Pascal to Snelling Ave., estimated to cost $6000.

Springfield, Mo.—Press reports state that plans are being prepared by S. Fisher, City Engr., for constructing a sewer in the Eighth Ward. Estimated cost, $80,000. Noted Nov. 12.

Benton, Ark.—According to press reports an election will be held about Jan. 15, to vote on the question of issuing $100,000 in bonds for constructing a sewer system and water works.

Afton, Okla.—(Official)—An election will be held Jan. 21, to vote on the question of issuing $37,000 in bonds for constructing a sanitary and storm sewer system. The Benham Engineering Co., Oklahoma City, is Consulting Engr. Noted Dec. 3.

Chelsea, Okla.—At a recent election the citizens voted in favor of issuing $30,000 in bonds for a sanitary sewer system.

Ontario, Calif.—Bids will be received by R. O. Brackenridge, City Clk., until Feb. 1, for the sale of $55,000 in bonds, the proceeds of which will be used for constructing sewers.

Ottawa, Ont.—(Official)—We have been advised that the City Council does not contemplate constructing pipe sewers in Bank St. Noted Dec. 31.

Toronto, Ont.—(Official)—Bids will be received by H. C. Hocken, Chn. of Bd. of Control, until noon, Jan. 19, for reconstructing a part of Section No. 2 of the High Level Interceptor.

Toronto, Ont.—Bids will be received by the Board of Control, until Jan. 19, for constructing sewers in a number of streets.

Vancouver, B. C.—According to press reports plans were submitted by S. B. Bennett, Municipal Engr., for connecting lateral sewers with the Canoe Creek and China Creek trunk sewers in South Vancouver and were passed by the Joint Sewerage Commission.

GARBAGE

Boston, Mass.—Bids will be received until Jan. 21 for the removal of offal, ashes and refuse in the various city districts. L. K. Rourke is Comr. Pub. Wks.

Weehawken, N. J.—(Official)—Bids will be received until 8 p.m., Jan. 18, by the Township Committee, for the removal of ashes and garbage. Thomas Carroll is Township Clk.

†Baton Rouge, La.—The contract for installing a garbage incinerator has been awarded to the NYE ODORLESS CREMATORY CO., Macon, Ga., at $4700. Noted Jan. 7.

New Orleans, La.—(Official)—At 10:30 a.m., Feb. 23, in the office of W. B. Thompson, Comr. Pub. Utilities, City Hall, there will be sold at public auction a franchise for installing and operating in the City of New Orleans, for a period of five years, illuminated sanitary trash cans; according to the specifications in ordinance No. 2031, Commission Council Series. George Ferrier, Jr., is Clk. of Commission Council.

★Hibbing, Minn.—Bids for the construction of an incinerator for disposal of the village garbage were received on Dec. 29 from; G. A. Oveson, International Falls, $5250 (for three units); McGuire Incinerator Co., $9680 (for two units). Noted Dec. 31.

Independence, Kan.—Press reports state that the city will build a garbage destructor plant to cost about $5000. C. H. Kerr is Mayor.

†Berlin, Ont.—(Official)—The contract for the construction of an incinerator has been awarded to the IDEAL INCINERATOR CO., Toronto. The estimated cost is $14,000. A. H. Millar is City Clk. Noted Dec. 10.

Ottawa, Ont.—(Official)—A communication from L. McL. Hunter, Roadway Engr., states that the by-law providing for the construction of an incinerator to serve the west end of the city has been passed. The estimated cost is $50,000. Noted Nov. 26.

Toronto, Ont.—Bids will be received until noon, Feb. 16, by H. C. Hocken, Mayor, Chn. Bd. of Control, for furnishing and installing furnaces and machinery for the refuse incinerating plant. The estimated cost is $60,000. Plans on file at the office of G. B. Wilson, St. Comr., City Hall. Noted Sept. 24, Oct. 22, Nov. 26.

STREETS AND ROADS

†Hartford, Conn.—The contract for the construction of about 4344 lin.ft. special 6-in. gravel road in East Lyme Township has been awarded by the State Highway Commission to A. B. CADWELL at approximately $7493. Noted Jan. 7.

††Albany, N. Y.—(Official)—Bids were received by John N. Carlisle, State Highway Comr., 55 Lancaster St., Jan. 5, for the construction of public highways by State Aid as follows:

Road No. 5543, Cattaraugus County, 6.95 miles: Lake Shore Construction Co., Dunkirk, $131,784; Ribstine-Holter Co., Inc., Rochester, $133,473; Thomas F. Shaughnessy, Albany, $129,076; LYMAN H. BEVANS, Albany, $128,431 (contract awarded); J. B. Hurley, Inc., Fredonia, $133,382; James Rossney, Buffalo, $130,162.

Road No. 1170, Cattaraugus County, 0.44 mile: Frank M. Foote, Arcade, $5876; Vodder Construction Co., Delevan, $6361; Lake Shore Construction & Supply Co., Dunkirk, $6122; E. H. Brown, Hempstead, $6106; JAMES ROSSNEY, Buffalo, $584. (awarded contract).

Road No. 5525, Cayuga County, 4.56 miles: Thomas Brady, Rochester, $54,313; Flood & Van Wirt Co., Hudson Falls, $54,079; P. H. Murray, Rochester, $53,831; Semper Bros., Watertown, $54,313; JOHN H. GORDON, Albany, $53,248 (awarded contract); Paddleford & King, Sherburne, $54,069.

Road No. 5627, Delaware County, 3.90 miles: De Graf & Hogeboom, Inc., Kingston, $47,714; S. V. Van Wagonen, Inc., Rondout, $46,666; SCHUNNEMUNK CONSOLIDATED CO., Highland Mills, $45,291 (awarded contract); St. Lawrence Construction Co., Menands, $46,147; Catskill Construction Co., Catskill, $48,592; Frank E. Gore, New York, $48,133; John H. Gordon, Albany, $47,844.

Road No. 5541, Essex County, 5.98 miles: C. W. Tryon, Boyntonville, $60,912; J. H. Culkin, Oswego, $56,879; James Anderson, Monands, $58,163; W. L. Lawton, Glens Falls, $62,487; KEESEVILLE ROAD CO., Keeseville, $54,693 (awarded contract); William G. Fox, Saratoga Springs, $55,373.

Road No. 5540, Essex County, 10.15 miles: James Anderson, Monands, $96,225; KEESEVILLE ROAD CO., Keeseville, $92,249 (awarded contract); J. A. Culkin, Oswego, $96,145; Bruno Pizzimenti, Seneca Falls, $99,931; Bluff Point Stone Co., Plattsburgh, $94,339; Boynton & McNally, Keeseville, $97,303.

Road No. 1222, Franklin County, 0.22 mile: Beede Bros., Keene Valley, $3932; Rumpf & Stevens, Lake Placid, $3821; R. B. Kennedy, Utica, $3813; Flood & Van Wirt Co., Hudson Falls, $4147; William B. Peggs, Canton, $4132; John B. Dower, Ballston Spa., $3613. All bids were rejected.

Road No. 1054, Alden-Darien Center, Genesee County, 3.88 miles: Lyden Contracting Corporation, Albany, $38,919; Greenfield Construction Co., Hornell, $39,631; Atlanta Construction Co., Atlanta, $39,345; James Rossney, Buffalo, $39,052; E. J. Mann Contracting Co., Buffalo, $39,528; E. H. BROWN, Hempstead, $38,811 (awarded contract); and 13 others.

Road No. 5538, Genesee County, 2.84 miles: Wood & Tompkins, Hilton, $28,655; E. H. Brown, Hempstead, $28,093; Dale Engineering Co., Utica, $28,616; Greenfield Construction Co., Hornell, $28,933; CHILSON & GIBSON, Buffalo, $26,939 (awarded contract); James Rossney, Buffalo, $28,416; Michael L. Ryan, Cortland, $27,524; Thomas F. Murray, Le Roy, $27,991.

Road No. 766-767, Monroe County, 7.12 miles: Whitmore-Rauber-Vicinius, Rochester, $79,999; Harry B. Harrison, East Rochester, $84,041; NEWPORT CONSTRUCTION CO., Herkimer, $76,259 (awarded contract); Leary & Morrisson, Rochester, $85,503.

Road No. 1221, Putnam County, 2.55 miles: John L. Hayes, Yonkers, $38,156; James L. Kehoe, Newburgh, $38,941; De Graff & Hogeboom, Inc., Kingston, $38,554; AMOS D. BRIDGES' SONS, Hazardville, Conn., $37,097 (awarded contract); St. Lawrence Construction Co., Albany, $38,409; and others.

Road No. 5536, St. Lawrence County, 8.35 miles: A. J. Rockwood, Rochester, $112,845; Beede Bros., Keene Valley, $110,589; James Anderson, Menands, $107,204; Richard Hopkins, Troy, $114,444; H. P. BURGARD, Fulton, $104,843 (awarded contract); R. B. Kennedy, Utica, $109,245; T. H. Gill Co., Binghamton, $110,068; Semper Bros., Watertown, $115,873; P. H. Murray, Rochester, $112,310; Frank E. Gore, New York City, $108,146.

Road No. 5534, Saratoga County, 4.95 miles: John P. Dugan, Amsterdam, $54,346; Phelan & Sullivan, Utica, $32,328; De Graffe & Hogeboom, Kingston, $54,782; J. P. Scanlon Construction Co., Albany, $54,246; William G. Fox, Saratoga Springs, $54,835; JOHN B. DOWER, Ballston Spa, $53,430 (awarded contract); Michael H. Ripton, Rochester, $55,244; and ten others.

Road No. 5542, Saratoga County, 4.55 miles: Phelan & Sullivan, Utica, $40,925; Michael H. Ripton, Rochester, $42,348; Amos D. Bridges' Sons, Inc., Hazardville, Conn., $40,538; De Graffe & Hogeboom, Inc., Kingston, $41,465; Brady & Oltarch, Inc., New York, $42,105; Valley Construction Co., Sidney, $41,518; WILLIAM G. FOX, Saratoga, $39,656 (awarded contract); and 14 others.

Road No. 986, Sullivan County, 10.97 miles: Edward P. Abrogast, Stroudsburg, Penn., $120,821; James L. Kehoe, Newburgh, $15,723; C. W. Tryon, Boyntonville, $109,824; Frank E. Gore, New York, $116,063; William A. Martin, Poughkeepsie, $108,394; FULTON ENGINEERING CO., Inc., Albany, $103,314 (awarded contract); A. Vito Construction Co., Thompson, Conn., $12,117; John L. Guinan Contracting Co., Brooklyn, $122,999; I. M. Ludington & Sons, Rochester, $119,746.

Road No. 5508, Ulster County, 6.50 miles: S. B. Van Wagonen, Rondout, $94,997; Russo-Parker Construction Co., Hudson, $99,690; RUDDY SAUNDERS CONSTRUCTION CO., Troy, $89,821 (contract awarded); Municipal Asphalt Co., New York, $99,805; Frank E. Gore, $99,996; Blankfield & Donovan, Kingston, $94,003; Frank Salvricci and James J. Kennedy, Eddyville, $95,927; Levenson Wrecking Co., Hoboken, N. J., $95,416.

Road No. 1224, Washington County, 5.33 miles: Flood & Van Wirt Co., Hudson Falls, $49,435; William S. McLachlin, Whitehall, $45,184; Michael H. Ripton, Rochester, $46,345; Criswell & Mallory, Mechanicsville, $47,538; James Anderson, Menands, $45,380; Fulton Engineering Co., Inc., Albany, $49,649; Brady & Oltarsh Constructing Co., Inc., New York, $44,469; Albert F. Johnson, New York, $48,729; WILLIAM G. FOX, Saratoga Springs, $39,941 (awarded contract); Amos D. Bridges' Sons, Inc., Hazardville, Conn., $4,279. Noted Dec. 17.

Bolivar, N. Y.—At a recent election the citizens voted in favor of paving 1½ miles of street, estimated to cost $30,000.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres. of the Borough until 11 a.m., Jan. 20, for improving Canarsie Lane, from Flatbush to Nostrand Ave., Clara St. from 36th to West St., East Eighth St. from Ocean Parkway to Johnson St., East 12th St. from Ave. U to Gravesend Neck Rd., Foster Ave. from Flatbush to Nostrand Ave., 39th St. from 14th Ave. to West St., 78th St. from 17th to 18th Ave., and 79th St. from 22d to 23d Ave.; also for 2000 tons of limestone to be delivered to the municipal asphalt plant, Seventh St. Basin, Gowanus Canal.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough until 2 p.m., Jan. 21, for improving the market spaces under the Williamsburg Bridge from Bridge to Columbia St.

Port Dickinson, N. Y.—Bonds for $39,000 were sold, the proceeds of which will be used for paving Chenango St. Noted Dec. 31.

✚Syracuse, N. Y.—The contract for resurfacing South State St., from Erie Canal to East Onondaga St., has been awarded to the WARNER QUINLAN CO., at $9884.

✚Yonkers, N. Y.—The contract for paving Lawrence St. has been awarded to WARREN BROS., Boston, Mass., at $15,918.

Chesterfield, N. J.—Bids will be received by the Township Committee until Jan. 16, for improving two miles of macadam road. James Logan, Mt. Holly, N. J., is Engr.-in-Charge.

★✚Somers Point, N. J.—The contract for constructing the Somers Point-Longport Blvd. has been awarded to the ATLANTIC CONSTRUCTION & SUPPLY CO., at $182,212. Noted Nov. 26 and Dec. 17.

Wilkes-Barre, Penn.—The City Council has voted to pave Jones, Dana, Lincoln, Beaumont and Hollenbeck St.

Baltimore, Md.—Bids will be received until Jan. 19, by the State Roads Commissioners, 601 Garrett Bldg., for the construction of one section of road through Grantsville, about .85 miles, to be constructed under Contract G-8, Garrett County,to be macadam or concrete. One section of road from Meadows to Camp Springs, about 3.03 mi., to be macadam or concrete, to be constructed under Contract P-13, in Prince George's County. One section of road from Upper Marlboro to Hills Bridge, about 2.45 mi., macadam or concrete, to be constructed under Contract P-14, in Prince George's County. One section of macadam or concrete road through the town of Church-Hill, .65 mi., to be constructed under Contract Q-12 Queen Anne's County. One section of 4-in. gravel resurfacing from Ridge to the Confederate Monument, about 3.58 mi., to be constructed under Contract SM-9, in St. Mary's County. O. E. Miller is Chn. of Rd. Comrs.

✚Baltimore, Md.—(Official)—The contract for paving Latrobe St., from Oliver St. to Lafayette Ave., has been awarded to MARTIN J. BEACH CO., at $4519. Noted Dec. 10.

★Baltimore, Md.—(Official)—Bids will be received by the Board of Awards, until 11 a.m., Jan. 20, for grading, curbing and paving on concrete base a number of streets. For particulars, see advertisement under "Contracts to Be Let."

Norfolk, Va.—The paving and curbing of Salter St., from Princess Ave. to Starr St. will be done by the city paving force under the supervision of W. H. Taylor, Jr., Acting City Engr.

New Cumberland, W. Va.—(Official)—Bids were received by the County Court, Jan. 4, for improving roads in Butler District. The contract for improving Section 3 has been awarded to ROSSER & MALONEY, Bellaire, Ohio, at $45,800, and Section 4 to FRED ROBINSON, New Cumberland, W. Va., at $25,000. Noted Dec. 10.

Danbury, N. C.—Press reports state that an election will be held Jan. 19 in Quaker Township, Stokes County, for the purpose of voting on the question of issuing $50,000 in bonds for constructing roads.

Macon, Ga.—Press reports state that an election will be held Mar. 4 to vote on the question of issuing $100,000 in bonds for paving. J. J. Gaillard is City Engr. Noted Dec. 24.

Savannah, Ga.—Press reports state that the City Council appropriated $50,000 for paving streets during 1915.

Jacksonville, Fla.—Press reports state that the City Council contemplates paving Parker St., from Beaver to Wambolt St.

✚Jackson, Miss.—The contract for resurfacing Capitol St. has been awarded to the BARBER ASPHALT CO., Philadelphia, at approximately $6000.

✚Covington, La.—A contract for constructing a road has been awarded by the St. Tammany Parish Police Jury to ARTHUR DOTTEN, Houltonville, La., at $24,068.

Dayton, Tenn.—According to press reports the Rhea County Road Bond Commissioners will sell $250,000 in bonds, the proceeds of which will be used for constructing roads.

Jonesboro, Tenn.—According to press reports the citizens of Washington County contemplate holding an election for the purpose of voting on the question of issuing $300,000 in bonds for constructing roads.

✚Louisville, Ky.—The contract for paving West Market St. from 35th St. to Parkway has been awarded to F. G. BRESLIN CO. at $76,000. Noted Nov. 26 and Dec. 17.

Paducah, Ky.—Press reports state the Commissioners of McCracken County will widen the Hinkleville Rd. and extend it about four miles to the Cairo Rd.

Bexley (Columbus post office), **Ohio**—An election will be held Jan. 28 to vote on the question of issuing $35,000 in bonds for improving streets.

Cadiz, Ohio—Bids will be received by the County Audtior until Jan. 30, for the sale of $30,000 in bonds, for the improvement of the Jewett Scio Free Turnpike Rd.

Canton, Ohio—Plans have been prepared for the construction of the following roads: Bituminous macadam: Navarre-Justus Rd., 2.49 miles, 15 ft. wide, $28,220; Alliance-Bolton Rd., 1 mile, 16 ft. wide; Magnolia-Sparta Rd., 3.12 miles, 15 ft. wide, $38,853; Waco-Mapleton Rd., 1.90 miles, 16 ft. wide, $21,998. Brick paving: Massillon-Millersburg Rd., 3.60 miles, 15 ft. wide, $76,495; Louisville-Freeburg Rd., 2.5 miles, 15 ft. wide, $53,400. Bids will be received in the early spring by the Commissioners of Stark County. W. F. Binson is County Surveyor.

Cincinnati, Ohio—(Official)—Bids will be received by Daniel Lawrence, Clk. of the Bd. of Dir. of the University, Burnet Woods Park, Cincinnatf, until noon, Jan. 20, for constructing an approach from Clifton Ave. to the athletic field of the University of Cincinnati.

Cleveland, Ohio—(Official)—Bids will be received by the Board of Commissioners of Cuyahoga County until 10 a.m., Jan. 30, for the improvement of Berea-Triskett Rd. E. G. Krause is Clk. of the Comrs.

✚Columbus, Ohio—The State Highway Commission awarded contracts as follows:

Miami County—Dayton-Troy Rd., macadam. J. M. HENNESSY & BRO., Piqua, $26,987.

Hardin County—Roundhead-McCuffey Rd., brick. HENRY S. ENCK, Lima, $23,787.

Morgan County-McConnellsville-Caldwell Rd., macadam H. C. FOSTER & SON, Richmond, $32,743.

Cuyahoga County—Chagrin Falls—Greenville Rd., brick. THE ENTERPRISE PAVING & CONSTRUCTION CO., Cleveland, $83,449.

Lancaster, Ohio—According to press reports, J. Carpenter, City Engr., is preparing plans fo the paving of West Fair Ave. from Columbus St. to the old canal bed.

Mt. Gilead, Ohio—Bids will be received by C. O. Higgins, County Audr., until Jan. 29, for the construction of the Hunter Rd. in Washington township.

Indiana—(Official)—Bids will be received as follows for road construction:

Valparaiso, until 2 p.m., Feb. 1, by the Commissioners of Porter County for constructing two gravel roads. C. A. Blachly is Audr.

Fowler, until 1 p.m., Feb. 1, by the Commissioners of Benton County for constructing a gravel road in Center Township. Warren Mankey is Audr.

Tipton, until 10 a.m., Feb. 1, by the Commissioners of Tipton County, for constructing a gravel road on line between Prairie and Liberty Townships. Oscar Vanners is Audr.

Greenfield, until 10 a.m., Feb. 1, by the Commissioners of Hancock County for constructing a road on line between Green and Center Townships. Lawrence Wood is Audr.

Williamsport, until 9 a.m., Feb. 1, by the Commissioners of Warren County for constructing a gravel road in Liberty Township. D. H. Moffit is Audr.

Rensselaer, until 2 p.m., Feb. 2, by the Commissioners of Jasper County for constructing stone roads in Carpenter and Walker Townships. J. P. Hammond is Audr.

Brazil, until 10:30 a.m., Feb. 2, by the Commissioners of Clay County, for constructing two limestone roads in Lewis Township. W. O. Graeser is Audr.

✚Fowler, Ind.—Contracts have been awarded by the Benton Commissioners for constructing county roads as follows: Welch Rd., $5666, to WILLIAM MAHONEY, La Fayette; Burns Rd., $6400, to GLYNN & VANNATA, Otterbein; Phares Rd., $8850, to EVANS & VANNATTA, Fowler; Keefe Rd., $6281, to WILLIAM MAHONEY, La Fayette; Lowman Rd., $11,250, to EVANS & VANNATTA, Fowler.

✚Greencastle, Ind.—A contract for constructing a macadam road in Franklin Township has been awarded by Commissioners of Putnam County, to MAHONEY & SONS, Greencastle, at $8400. Noted Dec. 17.

La Fayette, Ind.—All bids received Jan. 6 by the Commissioners of Tippecanoe County for constructing a gravel road in Wayne Township have been rejected.

✚Valparaiso, Ind.—A contract for constructing a gravel road in Union Township has been awarded by the Commissioners of Porter County to GREEN & COPLIN, at $15,450. Noted Dec. 17.

✚Vevay, Ind.—A contract for constructing a road in Cotton Township has been awarded by the Commissioners of Switzerland County to T. F. D. NEILL, Jeffersonville, at $7490.

✚Crystal Falls, Mich.—A contract for constructing 10¾ miles of road in Iron County has been awarded to WIDELL CO., Mankato, Minn., at $29,671. Other bids were: A. D. McRae, Iron River, Mich., $30,793; Smith, Byers & Sparks, Houghton, Mich., $36,175; Gust Tradeau & Son, Norway, Mich., $42,429.

Flint, Mich.—Bids will be received until Jan. 27 for 110,000 sq.yd. of paving. E. C. Shoecraft is City Engr.

Moline, Ill.—According to press reports the City Council has authorized the paving of 18th Ave., from 16th to 27th St., with brick. The estimated cost of the work is $26,599. Lyle Payton is City Engr.

Minneapolis, Minn.—The Park Board contemplates an expenditure of $48,000 for the improvement of Dean Blvd.

Kansas City, Kan.—Press reports state that bonds for $125,000 have been sold, the proceeds of which will be used for improving streets.

Potosi, Mo.—Press reports state that Potosi Special Road District Commissioners have retained W. R. Haegler to make surveys and plans for road construction.

Austin, Tex.—(Official)—Bids will be received by the County Judges of Bexar, Comal, Guadalupe, Hayes and Travis Counties until Jan. 22, for constructing the Austin-San Antonio-Post Rd. This road will be 71 miles long and will cost $240,000, of which $80,000 will be given by the Federal Government and the remaining $160,000 by the counties to be traversed by this road.

✚Bonham, Tex.—Press reports state that the contract for constructing 14 miles of road has been awarded to the OWENS CONSTRUCTION CO., Vicksburg, Miss., at $66,488. Noted Dec. 24.

Bryan, Tex.—At the election held Dec. 30 the question of issuing $600,000 in bonds for constructing roads in Brazos County was defeated. Noted Dec. 3 and 10.

Corpus Christi, Tex.—Press reports state that an election will be held Feb. 5 to vote on the question of issuing $100,000 in bonds for street paving. Roy Miller is Mayor. Noted Jan. 7.

✚Corsicana, Tex.—The Commissioners' Court has awarded the contract for the construction of 19 miles of roads in District No. 3, Navarro County, to FRED SMITH, Dallas, at $75,000.

Ennis, Tex.—According to press reports the City Commission plans to pave the streets in the business district, at approximately $85,000.

✚Galveston, Tex.—A contract for supplying approximately 10,000 cu.yd. of shell for improving county roads has been awarded to W. D. HADEN, by the Galveston County Commissioners.

✚Houston, Tex.—The contract for paving Holman St., from Main to Louisiana St., has been awarded to HORTON & HORTON, at $5600.

✚Mt. Pleasant, Tex.—A contract for paving ten blocks with Oklahoma rock asphalt has been awarded to the BERT HAHN CONSTRUCTION CO., Dallas, at approximately $30,000.

Paris, Tex.—Press reports state that at the election held Dec. 29, the people voted in favor of issuing $100,000 in bonds for street improvements. Noted Dec. 10.

✚Sherman, Tex.—The contract for paving about four miles of city streets has been awarded to LEVY & LEVY, Muskogee, Okla. The paving will have a 5-in. gravel concrete base with a 5-in. Texaco asphalt topping.

Chehalis, Wash.—Bids will be received by the County Commissioners, until Feb. 1, for constructing one mile of concrete highway and one mile of road, estimated to cost $15,000 and $17,000, respectively.

✚Hillyard, Wash.—The contract for paving Market St. has been awarded to the SPOKANE BITU MASS PAVING CO. at $4200.

✚Los Angeles, Calif.—The Board of Public Works awarded the following contracts for improving Wilhart St., to the FAIRCHILD-GILMORE-WILTON CO., at $27,971, Vermont Ave. to BRYANT & AUSTIN, at $127,764, and Hoover St. to G. H. OSWALD, at $48,526.

Oakland, Calif.—The City Council has approved plans for the improvement of 35th Ave. and Eighth St.

✚Huntingdon, Que.—A contract for macadamizing 11¾ miles of roads with sandstone finish has been awarded to O'CONNOR BROS. and RANTLY & SUMMERS.

✚Point Grey, B. C.—According to press reports the contract for paving the hill section of University Ave. has been awarded to the COTTON CO. at approximately $11,000. Noted Jan. 7.

INDUSTRIAL WORKS

✚Salem, Mass.—The contract for the construction of a four-story, reinforced concrete addition to the plant of the Naumkeag Steam Cotton Co., has been awarded to FRED T. LEY & CO., Springfield. Estimated cost $400,000. Noted Dec. 17.

Salem, Mass.—Heven & Crosby, Archs., 40 Central St., Boston, are revising plans for the construction of a four-story and basement, 35x213 ft. plant, for William H. Gove, 254 Lafayette St., Salem.

Camden, N. Y.—Bids will be received about Feb. 1 for the construction of a one-story, 50x300 ft. building, for the Hydraulic Turbine Co. Noted Jan. 7.

Buffalo, N. Y.—The United States Rubber Reclaiming Co. plans the construction of a $50,000 plant. C. B. Brewster, 724 Babcock Ave., is interested.

New York, N. Y.—(Borough of Queens)—Plans have been prepared by Timmis & Chapman, Archs., 315 Fifth Ave., New York, N. Y., for the construction of a two-story, 220x290-ft. reinforced-concrete plant, on Anabel Ave., Long Island City, for G. Schirmer, Inc.

★Thiells, N. Y.—Bids will be received until 11 a.m., Jan. 30, by Frank A. Vanderlip, Pres. of Bd. of Mgrs., Letchworth Village, for the construction of a laundry. For further information see advertisement under "Contracts to Be Let."

Tuckahoe, N. Y.—Samuel M. Green & Co. have prepared plans for the construction of two-story plant on Midland Ave., for the Commercial Research Co. The estimated cost is $25,000.

Harrison, N. J.—The Hyatt Roller Bearing Co. will construct a 2½-story 50x50-ft. addition to its plant on Railroad Ave. Estimated cost, $10,000.

Leonia, N. J.—The Universal Film Co. has had plans prepared for the construction of a $150,000 factory and studio at Leonia Heights near Fort Lee.

✚New Brunswick, N. J.—The contract for the construction of an addition to the plant of the Neverslip Mfg. Co., on Neilson St., has been awarded to PETER KINNEY, 39 Wyckoff St., New Brunswick.

New Brunswick, N. J.—E. Allen Wilson, Arch., 1208 Chestnut St., Philadelphia, Penn., is preparing plans for the construction of a four-story, 90x100-ft. factory for Bayuk Bros., Philadelphia, Penn.

✚West Orange, N. J.—The general contract for rebuilding the plant of Thomas A. Edison, Inc., recently destroyed by fire, at Lakeside Ave. and Valley Rd., has been awarded to the MOYER ENGINEERING & CONSTRUCTION CO., 375 Fulton St., Brooklyn, N. Y. Noted Jan. 7.

Carnegie, Penn.—The Superior Steel Co. plans to rebuild its plant at Carnegie, which was recently damaged by fire.

✚Marcus Hook, Penn.—The contract for the construction of two buildings for the Benzol Products Co., Philadelphia, has been awarded to F. W. VAN LOON, Philadelphia, at $75,000. A. B. Mitchell is Engr. Noted Dec. 24.

Morrellville (Johnstown post office), **Penn.**—The Johnstown Rubber Co. recently increased its capital from $25,000 to $100,000, for the construction of a plant.

York, Penn.—The York Corrugated Co. plans the construction of a two-story brick factory. Estimated cost, $22,000.

Baltimore, Md.—The Kennedy Foundry Co. plans the construction of a one-story foundry at Charles and Wells St. Estimated cost, $100,000. Joseph P. Kennedy is Pres.

Wheeling, W. Va.—W. L. Fordyce is organizing a company for the purpose of constructing a woolen mill, to cost about $25,000.

Shelbyville, Tenn.—The Sylvan Cotton Mills recently increased its capital from $72,000 to $90,000 for the purpose of constructing an addition to its plant. John F. Frierson is Pres.

Canton, Ohio—The Canton Sheet Steel Co. plans the construction of a two-story, brick and steel factory. Estimated cost, $25,000.

✚Cleveland, Ohio—Contracts for the construction of a two-story and basement brick factory on East 25th St., for the Cleveland Suit & Skirt Co., 1401 West Ninth St., have been awarded as follows: A. W. PAHNER, 685 East 118th St., masonry; JACOB SCHADE & SON, 1601 East 85th St., carpentry; VAN DORN IRON WORKS CO., East 79th St., steel; NORTON BROS., 2667 East 69th St., roofing. Estimated cost, $10,000. Noted Aug. 12 and Aug. 27.

Chicago, Ill.—The Independent Packing Co., recently purchased a site on Halstead St. and Emerald Ave., for the construction of an addition to its plant.

Chicago, Ill.—The Armour Grain Co., 137 South La Salle St., will construct a grain elevator on the Calumet River front. The first section will have a capacity of 3,000,000 bu. George E. Marcy is Pres.

Cudahy, Wis.—The Federal Rubber Mfg. Co. is having plans prepared for a three-story 44x125-ft. wing addition to its plant. Estimated cost, $500,000.

Wausau, Wis.—The Farmers' Co-operative Packing Co. plans to construct a two- and three-story brick and concrete packing plant. The estimated cost is $250,000.

West Allis, Wis.—The Davis Mfg. Co., Milwaukee, is having plans prepared for the instruction of a one-story, 350 × 290-ft. plant, at 50th Ave. and Burham St.

Ames, Iowa—Plans are being prepared by R. G. McDowell & Co., Good Blk., Des Moines, for the construction of a two-story and basement 54x120-ft. garage for L. R. Cold, of the Imperial Auto Co., 1016-18 Locust St., Des Moines. Estimated cost, $15,000.

Cedar Rapids, Iowa—Charles P. Hubbard plans the construction of an artificial ice house and cold-storage warehouse. Estimated cost, $150,000.

Independence, Iowa—H. T. Leibbe, Arch., State Capitol, Des Moines, has prepared plans for a two-story and basement, 70x120-ft laundry, to be built by the State Board of Control. Estimated cost, $20,000. F. S. Treat, State Capitol Bldg., is Secy.

Great Falls, Mont.—The Great Falls Sewer Pipe & Fireproofing Co., recently incorporated, plans to construct a four-story dryer, a four-story building for grinding machinery and a one-story power plant. Estimated cost, $260,000.

Beaumont, Tex.—The Magnolia Petroleum Co., a subsidiary of the Standard Oil Co., plans the construction of an oil refinery on a site recently purchased. The plan includes the construction of a warehouse on the Neches River. Noted Nov. 19.

Seattle, Wash.—Plans have been prepared by I. B. Johnson, 3838 Evanston Ave., for the construction of a two-story and basement garage for Frey & Kreilsheimer, at Broadway and Denny Way. Estimated cost, $25,000.

Seattle, Wash.—Manning & Morris contemplate the construction of a four-story reinforced-concrete garage and salesroom, at 11th Ave. and East Pine St. Estimated cost, $60,000.

Seattle, Wash.—Bids are being received by V. W. Voorhees, Arch., Eitel Bldg., for the construction of a two-story addition to the Overland Garage, 11th and Pike St. Estimated cost, $15,000.

Deschutes, Ore.—Plans are being prepared for the construction of a chemical plant to cost about $6,000,000. Jason C. Moore and associates are interested. J. G. Kelley is Consult. Engr.

St. Johns, Ore.—Plans are being prepared by L. R. Bailey, Arch., for the construction of a plant for the Western Cooperage Co., on Riverview Ave. Estimated cost, $75,000. Noted July 23.

Los Angeles, Calif.—Wise & Downie will construct a two-story brick factory on San Pedro St., between Sixth and Seventh St. Estimated cost, $15,000.

San Francisco, Calif.—The Langdorffer Baking Co. is having plans prepared by D. C. Coleman, Arch., Merchants' National Bank Bldg., for the construction of a two-story baking plant on McAllister St. Estimated cost, $30,000.

Yuba City, Calif.—A. B. Miller, Marysville, is preparing to construct a packing plant, to cost $25,000.

FEDERAL GOVERNMENT WORK

★✚Dredging—New Haven, Conn.—The contract for dredging in the New Haven Harbor has been awarded to the MORRIS & CUMINGS DREDGING CO., 17 State St., New York, N. Y. Noted Nov. 15 and Dec. 24.

✚Post Office—Glens Falls, N. Y.—The contract for the construction of a post office at Glens Falls has been awarded to GEORGE B. WILLS & CO., 101 Park Ave., New York, N. Y., at $61,552. Noted Nov. 5 and Dec. 24.

✚Pier—New York, N. Y.—(Borough of Brooklyn)—The contract for the construction of a timber and reinforced concrete pier at the New York Navy Yard, has been awarded to SNARE & TRIEST, 233 Broadway, New York, N. Y., at $158,730. Noted Dec. 3 and 24.

★Dredging—New York, N. Y.—Bids will be received until noon, Feb. 11, by Col. W. M. Black, Corps Engrs., 710 Army Bldg., New York, for dredging in the Harlem River, N. Y.

✚Warehouse—Sandy Hook (Fort Hancock post office), N. J.—The contract for the construction of a warehouse at Sandy Hook has been awarded to the ALTORIA REALTY & CONSTRUCTION CO., 3 East 44th St., New York, N. Y., at $12,454.

Dredging—Philadelphia, Penn.—The following are the bids received for dredging in the Delaware River, below Philadelphia: Maryland Dredging & Contracting Co., Baltimore, Md., (a) for dredging in Section D, calling for about 1,320,000 cu.yd., scow measurement, $124,080; (b) for dredging in Section E, calling for about 1,205,000 cu.yd. scow measurement, $113,270; (c) for dredging in Sections D and E, calling for about 2,525,000 cu.yd., scow measurement, $237,350; P. Sanford Ross, Inc., Jersey City, N. J., (c) $300,475; John H. Gerrish, Boston, Mass., (a) $167,508; (b) $149,299; Sanford & Brooks Co., (c) $277,750; American Dredging Co., Philadelphia, Penn., $110,220. Atlantic Gulf & Pacific Co., New York, N. Y., $239,117; Timothy J. Daly, New York, N. Y. (Borough of Brooklyn), (a) $210,800; (b) $192,800; (c) $391,375; Morris & Cumings Dredging Co., New York, N. Y., (a) $135,696; (b) $123,874; (c) $259,570. Noted Dec. 10.

Gasoline Cutter—Philadelphia, Penn.—Bids will be received by Col. George A. Zinn, Witherspoon Bldg., Philadelphia, until noon, Feb. 8, for constructing an 80-ft. wooden hull and house gasoline survey cutter. Noted Nov. 5 and Dec. 24.

★**Repairs To Bulkhead**—Cape Henlopen (Lewes post office), Del.—Bids will be received by the Lighthouse Inspector, Philadelphia, Penn., until 2 p.m., Feb. 1, for making repairs and extensions to timber groynes and bulkhead at Cape Henlopen.

Artesian Water Supply—Indian Head, Md.—According to press reports, the following bids were received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for an additional artesian water supply at U. S. Naval proving ground, Indian Head: (a) for artesian water supply of not less than 400,000 gals. per 24 hours in addition to existing supply; (b) work complete on bidder's plans and specifications; (c) for a further artesian water supply of not less than 400,000 gals. per 24 hours in addition to existing supply and increase provided under (a): Ridpath & Potter Co., Philadelphia, Penn., (a) $18,000, (b) $4.50 per ft. (c) $25,000; Edward Christman, Massillon, Ohio, (a) $15,970, (b) $9890 and $9590, (c) $3600.

Power Plant—Washington, D. C.—Plans are nearing completion for the construction of a central heating, lighting and power plant. Oscar Wenderoth, Treasury Dept., Washington, is Superv. Arch.

Road—Alexandria, Va.—Bids will be received by the Chairman, Board of Awards, office of Public Roads, U. S. Dept. of Agriculture, until 2 p.m., Jan. 22, for the construction of an experimental road on Mount Vernon Ave., in Alexandria County, from Military Rd., near Arlington Cemetery, about 4.5 miles to the corporate city limits of Alexandria. The approximate quantities to include: 29,000 cu.yd. of excavation; 7050 cu.yd. of gravel base, and 42,000 sq.yd. of bituminous surfacing.

Floating Crane—Portsmouth, Va.—Bids will be received by H. R. Stanford, Chief of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until Feb. 13, for furnishing a 150-ton floating revolving crane for the Norfolk Navy Yard. The opening of these bids was originally scheduled for Jan. 16. Noted Sept. 24.

✚**Dump Scows**—Wheeling, W. Va.—The contract for furnishing two wooden dump scows, designated "U. S. E. D. Kanawha No. 33" and "U. S. E. D. Kanawha No. 34," has been awarded to the KANAWHA DOCK CO., Point Pleasant, W. Va., at $5250. Noted Nov. 26.

★**Breakwater**—Cape Lookout, N. C.—The following are the bids received for the construction of a breakwater, including shore connection at Cape Lookout: John Cashman & Sons Co., Boston, Mass., (a) Contract No. 1, $1,431,144; (b) Contract No. 2, $3,321,000; Edward Gillen Dock, Dredge, & Construction Co., Racine, Wis., (a) $1,369,002; (b) $2,959,703; Roderick G. Ross, Jacksonville, Fla., (a) $1,360,671; (b) $2,988,900; Coast Lakes Contracting Co., New York, N. Y., (a) $1,897,350; (b) $3,012,885, Standard Lime & Stone Co., Baltimore, Md., (a) $1,864,824; (b) $3,997,500; Uvalde Asphalt Paving Co., (a) $1,909,800, (b) $4,317,450; Hardaway Contracting Co., Columbus, Ga., (a) $1,370,525; (b) $2,793,600; Cranford Paving Co., and Columbia Granite Co., Washington, D. C., (a) $2,835,-183; (b) $6,125,400; Coastwise Dredging Co., Norfolk, Va., (b) $3,024,600; H. P. Converse & Co., Boston, Mass., (a) $1,236,818; (b) $2,756,030; D. L. Taylor Co., Medina, N. Y., (a) $1,073,358; (b) $2,435,400; Bowers Southern Dredging Co., Galveston, Tex., (a) $1,372,086; (b) $2,966,226. Noted Nov. 26.

★✚**Piling**—Wilmington, N. C.—The contract for furnishing and delivering 2716 short leaf pine piles has been awarded to M. A. REGAN, Elizabethtown, N. C., at $4889. Other bidders were: Empire Tie Co., Wilmington, N. C., $5426; G. Elias & Bro. Inc., Buffalo, N. Y., $8066; J. D. Robbins, Wilmington, N. C., $6518; J. S. Hoskins Lumber Co., Baltimore, Md., $10,185; J. McDowell, Elizabethtown, N. C., $9370. Noted Nov. 5.

✚**Post Office**—Thomasville, Ga.—The contract for the construction of a post office at Thomasville has been awarded to the WESTCHESTER ENGINEERING CO., White Plains, N. Y., at $55,506. Noted Nov. 12 and Dec. 24.

✚**Earthwork**—New Orleans, La.—The contract for the construction of earthwork in the lower Tensas District has been awarded as follows; for about 101,000 cu.yd. in the Bayou Vidal Levee, to H. T. VAN FOSSEN, at $13,382; for 101,000 cu.yd. in the Dahlia Levee to ROBERT NICHOLSON & CO., at $17,635. Other bidders were: J. G. Sessions, $13,514 (for Bayou Vidal Levee only); Quicksall & Berger, $31,996; N. C. Williamson, $55,550; Donovan & Daley, $42,218; S. R. Hughes Construction Co., $36,562; W. E. Geren, $46,460; Lambert Bros., $18,139 (for Bayou Vidal Levee only); Francis T. Constant, $39,188; Walker & Hill, $40,136; R. T. Clark & Co., $33,047; W. C. Mullen, $38,-016; Gibson & Son & Hamilton, $31,754; Linnan Bros., $34,340; H. B. Blanks Levee Co., $37,329. Noted Dec. 10.

Post Office—Covington, Tenn.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Feb. 20, for the construction of a post office at Covington.

Steel Hull—Kentucky—Bids will be received by Lieut. Col. W. L. Sibert, Custom House, Cincinnati, Ohio, until 10 a.m., Feb. 9, for constructing a steel hull for Derrick Boat No. 4, Kentucky River, Ky.

Post Office—Bozeman, Mont.—Bids were received as follows, for the construction of a post office at Bozeman, (a) limestone; (b) sandstone: Olson & Johnson, Missoula, Mont., (a) $61,474; (b) $62,750. Leigland-Kleppe & Co., Great Falls, Mont., (a) $65,-000; (b) $66,175. John Almeter, Portland, Ore., (a) $65,900; (b) $67,000. Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $69,469; (b) $70,469. Reynolds, Sypher & Shackleton, Butte, Mont., (a) $65,990; (b) $67,190. William O'Neil & Son Co., Faribault, Minn., (a) $69,804; (b) $73,713. William H. Egan, New York, N. Y. (a) $66,333; (b) $67,733. Levegne, Felsheim & Baverly, Bozeman, Mont., (b) $62,976. H. E. Doering, Portland, Ore., (a) $66,291; (b) $67,740. Noted Dec. 10.

★✚**Jetty Work**—Sabine Pass, Tex.—The contract for jetty work at Sabine Pass, has been awarded to JAMES CLARK & CO., Galveston, Tex., at $174,088. Noted Nov. 19 and Jan. 7.

Post Office—La Junta, Colo.—Bids were received as follows; for the construction of a post office at La Junta, (a) limestone; (b) sandstone:

George W. Stiles Construction Co., Chicago, Ill., (a) $75,835. Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $76,539; (b) $76,937. Deiter & Wenzel Construction Co., Wichita, Kan., (a) $86,225. Welch Bros. & Hannaman, Grass Valley, Calif., (a) $88,332; (b) $88,332. William O'Neil & Son Co., Faribault, Minn., (a) $82,197. John Lafe & Co., Omaha, Neb., (a) $84,062. Noted Nov. 26.

★**Canal, Etc.**—Olathe and Delta, Colo.—The following are the bids received for the construction of the Lower Selig Extension Canal and laterals; Reynolds Ely Construction Co., Springville, Utah, $24,490; M. A. Wogan, Denver, Colo., $25,077; Bates Milles & Co., Springville, Utah, $25,957; Orman Construction Co., Montrose, Calif., $25,957; Mendenhall, Straw & Bird, Springville, Utah, $28,303. Noted Dec. 17.

Pump Unit—Minidoka, Idaho—Bids will be received until 2 p.m., Jan. 20, by E. O. Ensign, Ch. Electrical Engr., U. S. Reclamation Service, Los Angeles, Calif., for furnishing centrifugal pumps and framework for the Boersch Lake pumping plant, Minidoka.

Ward Building and Addition to Dormitory—Fort Mason (San Francisco post office), Calif.—Bids will be received by the Constructing Quartermaster, until 11 a.m., Jan. 18, for constructing a ward building and an addition to the nurses dormitory.

✚**Rostrum**—Presidio (San Francisco, post office), Calif.—The contract for the construction of a rostrum for the National Cemetery at Presidio has been awarded to R. EHRHART, San Francisco, at $5832.

Structural Steel—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 10:30 a.m., Jan. 23, for furnishing and erecting or erecting only, structural steel and miscellaneous material for Pier No. 7, Christobal Terminal Docks.

Miscellaneous Supplies—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 10:30 a.m., Jan. 21, for furnishing by steamer free of all charges on either Colon, Atlantic port, or Port of Ancon, Balboa, Canal Zone, Pacific port, c.-i. lamp-posts and porcelain receptacles and lamp sockets for same, electric cable, steel cable, steel pipe and pontoons for same, c.-i. washers, stovepipe, garbage cans, buckets, anchors, brass bolts and washers, door bolts, power hack saw, anchor lights, cheesecloth, sash cord, chalk line, twine, rubber bands, bristol board, pad board, manganese dioxide, and potassium chromate.

✚**Valves and Accessories**—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 11:30 a.m., Feb. 24, for furnishing valves and accessories for Dry Dock No. 1, Balboa Terminals.

Steel Dump Scows—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until Feb. 10, for furnishing three 1000-yd. steel dump scows.

★**Material for Pumping Plant**—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 10:30 a.m., Feb. 24, for furnishing material for the pumping plant of Dry Dock No. 1, Balboa Terminals.

MISCELLANEOUS

Electric Wiring and Bookstacks—Albany, N. Y.—The following bids were received by the Trustees of Public Buildings, Dec. 29, for furnishing and installing electric wiring, bookstacks and reflectors at the state education building: Hatzel & Buehler, New York, N. Y., $10,840; Finch & Hahn, Albany, $11,000; Edward Joy Co., Syracuse, $11,775; Lord Electric Co., New York, N. Y., $11,888; Albin Gustafson Co., New York, N. Y., $11,958; Isador Fajans, New York, N. Y., $11,975; Alliance Electric Co., Inc., New York, N. Y., $12,684.

Plaza—Albany, N. Y.—The Common Council has passed an ordinance authorizing a bond issue of $175,000 for the construction of a plaza at the foot of State St.

★**Steel Furniture**—Albany, N. Y.—The following bids were received Dec. 29 by the Trustees of Public Buildings for furnishing standard and steel furniture for the state tax commission: B. Gloeckner & Co., Albany, $11,359; Clayton E. Marsters, Albany, $11,700; A. Pearson's Sons, Brooklyn, N. Y., $11,-943; Cobb-Macey-Dohme, Inc., New York, N. Y., $12,598; Helmes Bros., Albany, $15,700; Van Dorn Iron Works Co., New York, N. Y., $20,210. Noted Dec. 10.

★**Finishing Hardware**—Albany, N. Y.—(Official)—Bids will be received until 4 p.m., Jan. 18, by Col. Franklin W. Ward, Secy., Bd. of Armory Comrs., 174 State St., for furnishing the finishing hardware for armory and stable for Troop B, First Cavalry, N. G. N. Y. For details see advertisement under "Contracts to Be Let."

★**Water Softening Plant**—Buffalo, N. Y.—(Official)—Bids will be received until 2:30 p.m., Jan. 21, by the State Hospital Commission, Capitol, Albany, N. Y., for the construction of a water softening plant at the Buffalo State Hospital, Buffalo, N. Y. E. S. Elwood is Secy. of the Comn. For further information see advertisement under "Contracts to Be Let."

Filling—New York, N. Y.—(Borough of Manhattan)—Bids were received Dec. 31 by the Department of Parks for filling the swamp land at the southwest corner of Van Cortlandt Park, from Van Cortlandt Contracting & Improvement Co., Inc., at $14,951; Simon Russek, Inc., at $21,800.

Riprap—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for placing 50,000 cu.yd. of riprap, on which the Frederick Starr Contracting Co. was the lowest bidder, has been temporarily abandoned for lack of the necessary appropriation from the Board of Estimate. Noted Dec. 31 and Jan. 7.

✚**Fire Hydrants**—New York, N. Y.—(Boroughs of Manhattan and Bronx)—The Department of Water Supply, Gas and Electricity has awarded the contract for furnishing double-nozzle fire hydrants for use in Manhattan and Bronx to the A. P. SMITH MFG. CO., East Orange, N. J., at $10,040. Noted Jan. 7.

Dredging—New York, N. Y.—(Boroughs of Manhattan, Brooklyn, Queens, the Bronx and Richmond)—(Official)—Bids will be received until noon, Jan. 18, by R. A. C. Smith, Comr.

Docks, Battery Pl., for dredging about 250,000 cu.yd. in the North River and about 80,000 cu.yd. in the East and Harlem Rivers. The amount of security required is $23,000.

Roofing—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Department of Public Charities, Room 1034, Municipal Bldg., until 10:30 a.m., Jan. 20, for furnishing the labor and materials required for roofing work on the children's hospital and schools, Randalls Island. The amount of security required is $6000.

Fire Station—Hoboken, N. J.—(Official)—Bids will be received until 7 p.m., Jan. 27, by the Mayor and Council, for the construction of the proposed fire station at Second and Jefferson St. The bids received recently for this work were rejected. Noted Nov. 26, Dec. 17, Jan. 7.

Portland and Asphaltic Cement—Newark, N. J.—Bids will be received until 3:15 p.m., Jan. 14, by the Board of Works for 300 tons of asphaltic cement, 200 tons asphaltic sand, 250 tons rock dust and 200 tons of portland cement.

✚**Motor Fire Apparatus**—Perth Amboy, N. J.—The Board of Alderman has awarded the contract for furnishing motor driven fire apparatus to the FRANK VAN SYCKLE GARAGE CO., Perth Amboy.

★**Skylights, Roofing and Cargo Doors**—Philadelphia, Penn. (Official)—The following bids were received on Jan. 4 by the Department of Docks and Ferries for (Schedule A) installing skylights at Piers 38 and 40, South Wharves: David Lupton's Son Co., Philadelphia, $5057; J. S. Thorn Co., Philadelphia, $5300; E. S. Bortel, Philadelphia, $8382. Bids for (Schedule B) slag roofing for Piers 38 and 40 were as follows: Harry S. Ehret, $6442; General Roofing Co., $6842; E. S. Bortel, $6933; Benjamin Foster Co., $7157; The Philip Carey Co., $9319; Warren Ehret Co., $9618. For (Schedule C) erecting cargo doors on Piers 38 and 40, the bids were: Snare & Triest, $39,250; Kinnear Mfg. Co., $54,000, alternate, $43,000; J. E. Ogden Co., $47,988, five alternates from $32,981 to $47,128; W. W. Lindsay, $41,710 (the foregoing bids are on item 11 only, for vertically operated frame doors). These bids were received for (Schedule D) erecting cargo chutes and hatchway railings at Piers 38 and 40: W. W. Lindsay & Co., $4300; Geo. B. Clopp, $4375; John Baizley Iron Works, $5250. George W. Norris is Dir. Dept. Wharves, Docks and Ferries. John Meigs is Asst. Dir. Noted Dec. 24.

★**Electric Hoists**—Philadelphia, Penn.—(Official)—Bids will be received by George W. Norris, Dir., Dept. Wharves, Docks and Ferries, 555 Bourse Bldg., until noon, Feb. 15, for furnishing electric hoists for installation at Southwark Piers, Catherine and Christian St., Delaware River. For details see advertisement under "Contracts to Be Let."

★**Street Signs**—Wilkes-Barre, Penn.—(Official)—Bids will be received until noon, Jan. 29, by Fred H. Gates, City Clk., for furnishing f.o.b. Wilkes-Barre, 200 four-way street signs and 400 single signs suitable for fastening to buildings. For details see advertisement under "Contracts to Be Let."

Dredging—Charleston, S. C.—The Chamber of Commerce is considering the dredging of Cooper River to a uniform depth of 30 ft. The estimated cost is $175,000.

Drainage—Columbia, S. C.—F. G. Eason and D. F. Culbertson, investigators, U. S. Dept. of Agricultrue, have filed plans and reports with the State Department of Agriculture for the drainage of Cowcastle District, Orangeburg County. It comprises 42,353 acres. The estimated cost is $186,371.

Illuminated Trash Boxes—New Orleans, La.—(Official)—See item under "Garbage."

River Improvement—Tiffin, Ohio—(Official)—Clyde C. Porter, City Solicitor, writes that bids for proposed river improvement have not been advertised yet. The contemplated work includes widening, straightening and deepening the river; also the construction of a reinforced-concrete retaining wall. William Heller is Dir. Pub. Wks. J. L. Oberlander is City Engr. Noted Dec. 31.

★**Pumping Station**—Quincy, Ill.—(Official)—Bids will be received by the Edmund T. Perkins Engineering Co., First National Bank Bldg., Chicago, Ill., until 2 p.m., Feb. 19, for the construction of an electric pumping station for the South Quincy Drainage and Levee District, Adams County. Walter P. Martindale is Secy. of District. For details see advertisement under "Contracts to Be Let."

Sewer Construction—Rockford, Ill.—(Official)—Bids will be received until 11 a.m. Jan. 27 by W. W. Bennett, Pres. of the Bd. of Local Improvements, for the construction of the Southeast End Sewer District. See advertisement under "Contracts to Be Let."

Cribbing and Sheet Piling—Milwaukee, Wis.—The Board of Park Commissioners, Frank F. Schumacher, Secy., will receive bids until Jan. 15, for furnishing the material and constructing rock-filled timber cribs for protection of the Lake Shore Drive from Milwaukee River tunnel inlet to Wisconsin St. Bids should be submitted as follows: Price per foot on 1700 lin.ft. of crib construction; price per lin.ft. on 2800 ft.; price per foot on 100 lin.ft. of sheet piling. The estimated cost is $150,000.

✚**Motor Fire Apparatus**—Sioux Falls, S. D.—(Official)—The city has awarded the contract for furnishing the fire department with a 75-ft. aërial truck, to the AMERICAN LA FRANCE FIRE ENGINE CO., Elmira, N. Y., at $10,450. The other bids were: Seagrave Co., $10,100; James Boyd & Bros., $10,100. S. B. Howe is City Engr. Walter C. Leyse is City Audr. Noted Dec. 31.

Gymnasium—Cooperstown, N. D.—(Official)—Bids will be received until 1:30 p.m., Feb. 1, at the office of Berg Bros., Cooperstown, for the erection of the A. H. Berg memorial gymnasium. Plans and specifications may be secured from the offices of Berg Bros., Cooperstown, or Hancock Bros., Archs., Fargo, N. D.

Wharf and Warehouse—Houston, Tex.—(Official)—E. E. Sands, City Engr., states that the site for the proposed wharf and warehouse has not been selected and until this is done the contract will not be awarded. Bids for this work were received on Oct. 28. Horton & Horton, at $218,840, submitted the lowest bid. Noted Sept. 17, Oct. 8, Nov. 5.

Fire-Alarm System—Temple, Tex.—The city officials have under consideration the installation of an electric fire-alarm system.

Ditches—Bellingham, Wash.—C. M. Adams, County Engr. has completed surveys for three ditches. They will be constructed in the spring at an estimated cost of $45,000.

Ferry Terminal and Fish Market—Seattle, Wash.—The Seattle Port Commission is having plans prepared for a headhouse, ferry terminal and a public fish market to be erected at West Seattle. The estimated cost is $20,000.

Waterway—Tacoma, Wash.—(Official)—A communication from L. A. Nicholson, Engr., Commercial Waterway District No. 1, Pierce County, states that the recently elected commissioners have appointed Chester Thorne Chn., John Buffelin Secy., and John D. Fletcher Attorney. The location of the waterway has not been located definitely nor the right of way obtained; it is probable that several months will elapse before bids will be received.

Jetty—Eureka, Calif.—Two jetties will be constructed, north and south, at an estimated cost of $435,000. A wharf is being constructed preliminary to the construction of the north jetty. Work on the south jetty will be commenced about Feb. 1. Morton L. Tower is Engr.

Harbor Improvements—Los Angeles, Calif.—According to local press reports the Harbor Commission has ordered the City Engineer to prepare plans for the construction of a 2000-ft. jetty for inclosing an area of 40 acres to be used as a fisherman's harbor. A wharf 1500 ft. long will be constructed also. The project calls for 1,300,000 cu.yd. of filling and 250,000 cu.yd. of dredging. The estimated cost is $300,000.

Interlocking Tower—Oakland, Calif.—The San Francisco-Oakland Terminal Ry. plans to construct an interlocking tower at Stanford Ave. and Lowell St. The estimated cost is $22,744.

✚**Wharf**—Richmond, Calif.—(Official)—The contract for the construction of the municipal wharf has been awarded to the HEALY-TIBBITTS CONSTRUCTION CO., 263 Market St., San Francisco. The estimated cost is $248,657. J. A. Jordan is Supt.

Fire Station—San Francisco, Calif.—Press reports state that the City Bureau of Architecture has been allowed $3000 for the preparation of plans and specifications for a fire station to be erected at Post and Polk St. The estimated cost is $50,000.

Coal Pocket—Westmount, Que.—The Ogdensburg Coal & Towing Co., 134 McCord St., plans to construct a reinforced-concrete coal pocket estimated to cost about $10,000.

Elimination of Grade Crossing—Brantford, Ont.—T. H. Jones, City Engr., has prepared plans for the construction of a subway at St. Paul St. under the tracks of the Grand Trunk Ry. System, requiring about 1900 cu.yd. of reinforced concrete.

Fuel Reservoir—Vancouver, B. C.—Plans have been completed and bids soon will be received for the construction of an additional fuel reservoir, having a capacity of 50,000 bbl.

Civic Center—Vancouver, B. C.—Plans for the proposed civic center will be prepared by Thomas Kerner and M. Matocks, Vancouver. The estimated cost is $2,500,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous

Manchester, N. H.—Plans are being prepared by Hutchins & French, Archs., 6 Beacon St., Boston, Mass., for the construction of a five-story 100-125-ft. building on Elm St.

Boston, Mass.—H. H. Atwood, Arch., 61 Alban St., Dorchester District, is preparing plans for the construction of a 11-story and basement administration building. Estimated cost, $225,000.

Boston, Mass.—Bids will soon be received for the construction of a six-story, 92x154-ft. fire proof building on School St. C. Howard Walker, 71 Gilby St., is Arch.

✚**Springfield, Mass.**—The contract for alterations in the building of Smith & Murray Co., Main and Court St., has been awarded to E. J. PINNEY, at $125,000. B. H. Seabury, Springfield is Arch.

New Britain, Conn.—Bids will be received by Walter P. Crabtree, Arch., 272 Main St., until Jan. 20, for the construction of a two-story high school. Estimated cost $150,000.

New Haven, Conn.—Bids will be received about Mar. 1, for the construction of an administration building for the New Haven Hospital and a building for the Yale Medical School. Estimated cost, $300,000. L. W. Robinson, 42 Church St. is Arch. Noted Dec. 17.

Albany, N. Y.—St. Vincent De Paul's R. C. Church contemplates the construction of a parochial school on Western Ave. Estimated cost, $50,000. Rev. William R. Charles, 900 Madison Ave., is pastor.

Albany, N. Y.—The Board of Supervisors is considering the remodeling of the Albany Penitentiary into a modern jail. Estimated cost $185,000.

Beacon, N. Y.—The Board of Education is contemplating the construction of a two-story high school on Fishkill Ave. Estimated cost, $60,000. Wilson Potter, 1 Union Sq., New York; William Whitney Rasmussen, 1133 Broadway, New York; and John T. Simpson, 31 Clinton St., Newark, N. J., are Archs.

Buffalo, N. Y.—The lowest bids received Dec. 29, by the Board of Supervisors for reconstructing the Erie County Jail were as follows: Masonry, C. H. Everett, $57,500; steel and iron work, Buffalo, Structural Steel Co., $36,000; removing old cells, etc., C. F. Ernst, $51,389; all material and labor, Van Dorn Iron Wks., $107,316.

Cooperstown, N. Y.—The Delaware & Hudson R.R. contemplates the construction of a $60,000 station. F. D. Anthony, Albany, N. Y., is Constr. Engr.

Holtsville, N. Y.—Nathan Myers, Arch., 7 Nelson Pl., Newark, N. J., submitted tentative plans for the proposed tuberculosis hospital to the Board of Commissioners of Suffolk County, Patchogue, L. I. The plans were approved and permanent plans will be prepared at once. Estimated cost, $50,000.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by George Blum and Edward Blum, 505 Fifth Ave., for the construction of a six-story, 125x125-ft. apartment house at Haven Ave. and 180th St., for the Strathcona Construction Co., 3785 Broadway. Estimated cost, $120,000.

New York, N. Y.—(Borough of Bronx)—Frank J. Schefcik, 176th St. and Park Ave., is preparing plans for the construction of a five-story apartment house at 174th St. and Vyse Ave., for J. W. Cornish Construction Co., 805 East Tremont Ave. Estimated cost, $50,000.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by the Tremont Architectural Co., Webster and Tremont Ave., for the construction of a five-story, 50x87-ft. apartment house on 176th St. and Marmion Ave., for the Benenson Realty Co., 401 East 152d St. Estimated cost, $50,000.

New York, N. Y.—Borough of Brooklyn)—Bids will be received by the Grover Realty Co., 113 South Second St., for the construction of a six-story, 48x100-ft. apartment house on South Second and Berry St. Shampan & Shampan, 772 Broadway, are Archs.

New York, N. Y.—(Borough of Brooklyn)—Plans have been prepared by Gronenberg & Linchtag, 303 Fifth Ave., New York, for the construction of two four-story apartment houses for the Bensonhurst Improvement Co., Cropsey and 21st Ave. Estimated cost, $100,000.

New York, N. Y.—(Borough of Brooklyn)—Plans have been prepared by Shampan & Shampan, 772 Broadway, for the construction of a five-story apartment house on 68th St. and Fourth Ave., for the Boyd Realty Co. Estimated cost, $80,000.

New York, N. Y.—(Borough of Manhattan)—Samuel R. T. Very, 70 East 45th St., has completed plans for alterations to the seven-story apartment house at 22 East 62d St., for Mrs. Edward de Forest Simmons, 128 East 60th St. Estimated cost, $40,000.

New York, N. Y.—(Borough of Manhattan)—Neville & Bagge, 105 West 140th St., are preparing plans for the construction of a five-story, 50x87-ft. apartment house on Sherman Ave. and Dykman St. Estimated cost, $45,000. James Livingston, 261 West 36th St., is interested.

New York, N. Y.—(Borough of Manhattan)—The Trustees of the Cathedral of St. John the Divine have signified their intention to have Cram & Ferguson, Archs., Boston, Mass., prepare plans for the construction of the Cathedral Nave. Estimated cost $1,000,000. Work will not be completed for several years.

North Bergen, N. J.—(Official)—Bids will be received until 8 p.m., Jan. 19, by the Board of Education for the construction of No. 5 School. George C. Chrestman is Clk.

Hackettstown, N. J.—Bids will be received until Jan. 20, by Board of Education for the construction of a two-story, 35x144-ft. two-wing addition to a school. Estimated cost $75,000. William W. Rasmusser, 1133 Broadway, New York, N. Y., is Arch.

Paterson, N. J.—Fred Wentworth, 140 Market St., is preparing plans for the construction of a two-story, 140x170-ft., school. Estimated cost $223,000. Lewis T. Eden, 1 Madison Ave., New York, N. Y., is Engr.

Woodstown, N. J.—Bids will be received Jan. 18, by the Board of Education for the construction of a two-story and basement 110x205 ft. school. Albert W. Dilks, Philadelphia, Penn., is Arch.

Carbondale, Penn.—Bids will be received about Apr. 1, for the construction of a two-story high school. Estimated cost $200,000. E. H. Davis, Connell Bldg., Scranton, is Arch. Noted Dec. 31.

Lebanon, Penn.—Bids will soon be received for the construction of a two-story armory for the State of Pennsylvania. Estimated cost $50,000. McCormick & French, Wilkes-Barre, are Archs.

Monaca, Penn.—Plans are being prepared by Carlisle & Sharrer, Archs., Jenkins Arcade Bldg., Pittsburgh, for the construction of a group of buildings for Beaver County. Estimated cost, $80,000.

✚Philadelphia, Penn.—The contract for the construction of a four-story, 95x188-ft., apartment house on 12th St. and City Line has been awarded to ISAAC T. SHOEMAKER, 1309 Walnut St. Estimated cost, $200,000. Noted Dec. 24.

Sharon, Penn.—Plans are being prepared by F. E. Clepper & Co., Youngstown, Ohio, for the construction of a two-story building for the Sharon Commercial Arcade Co. Estimated cost, $100,000.

Wilkes-Barre, Penn.—Plans have been repared by Fulton & Butler, Arch., West Main St., Uniontown, Penn., for the construction of a two-story, 75x130-ft. building for the St Johns Luthran Church. Estimated cost $50,000.

(Continued on next page.)

BARGE CANAL WORK, ALBANY, N. Y.

✚Bids were received Dec. 22, by Duncan W. Peck, State Supt., Pub. Wks., for contract No. 13, constructing a guard lock, highway bridge and cut-off dam at Schuylerville from (A) Holleran Bros., Elmira, N. Y.; (B) Callahan & Prescott, (D) George Holler, Albany, N. Y.; (E) Champlain Engineering Inc., Albany, N. Y.; (C) Jobson-Gifford Co., New York, N. Y.; & Construction Corporation, Saratoga, N. Y.; (F) Walsh Construction Co., Davenport, Iowa; (G) Holler & Shepard, Rochester, N. Y.; (H) Barrally & Ingersoll, Rochester, N. Y.; (I) Parker & Beebe, Waterford, N. Y.; (J) Flood & Van Wirt Co., Hudson Falls, N. Y.; (K) Leary & Morrison Co., Rochester, N. Y.; (L) Eastover Construction Co., Inc., Utica, N. Y.; (M) LOW B. CLEVELAND, Watertown, N. Y. (awarded contract); (N) Gruner & Hallenbeck, Harriman, N. Y.; (O) W. T. Shields, Albany, N. Y.; (P) Scott Bros., Rome, N. Y.; (Q) Chesley, Earl & Helmbach, Inc., Buffalo, N. Y. The item bids were as follows:

CONTRACT NO. 13

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Clearing (lump sum)	$100.00	$100.00	$120.00	$100.00	$25.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$50.00	$50.00	$100.00	$100.00	$100.00
12,400 cu.yd. excavation	0.80	0.75	0.90	0.63	0.70	0.66	0.75	0.65	0.65	0.70	0.70	0.70	0.60	0.55	0.57	0.75	0.95
11 M. ft. b.m. sheeting and bracing	50.00	50.00	60.00	50.00	35.00	50.00	50.00	50.00	60.00	50.00	50.00	40.00	45.00	45.00	50.00	50.00	45.00
600 cu.yd. embankment	0.12	0.10	0.01	0.12	0.05	0.12	0.12	0.12	0.12	0.15	0.12	0.10	0.10	0.14	0.12	0.12	0.12
50 cu.yd. lining	1.50	1.50	1.80	1.50	0.85	1.50	1.50	1.50	1.50	1.50	1.50	1.00	1.30	1.50	1.50	1.50	1.20
17.5 M ft. b.m. sawed lumber	55.00	55.00	66.00	55.00	50.00	55.00	50.00	55.00	60.00	66.00	55.00	66.00	50.00	50.00	55.00	55.00	45.00
1 M ft. b.m. white oak lumber in miter sills	200.00	100.00	240.00	200.00	150.00	190.00	200.00	200.00	200.00	150.00	195.00	200.00	200.00	125.00	200.00	200.00	200.00
1000 lin.ft. foundation piles	0.35	0.35	0.42	0.35	0.25	0.35	0.38	0.35	0.35	0.35	0.35	0.42	0.35	0.32	0.33	0.30	0.35
14 M ft. b.m. wooden sheet piling	50.00	50.00	60.00	50.00	40.00	60.00	52.00	50.00	60.00	50.00	50.00	60.00	50.00	50.00	50.00	60.00	40.00
2 cu.yd. first-class reinforced concrete	15.00	15.00	18.00	15.00	10.00	15.00	14.00	15.00	15.00	15.00	14.00	15.00	18.00	15.00	15.00	15.00	12.00
4700 cu.yd. second-class concrete	8.00	7.50	7.57	7.65	7.50	8.25	8.00	7.50	7.50	7.80	8.50	8.00	6.00	7.50	7.50	7.00	9.15
180 cu.yd. third-class rip-rap	2.00	2.00	2.40	2.00	1.35	2.00	2.00	2.00	2.00	2.00	2.00	2.40	1.90	1.50	2.00	2.00	1.50
56,400 lb. structural steel	0.045	0.04	0.054	0.045	0.045	0.042	0.045	0.04	0.04	0.04	0.04	0.04	0.043	0.045	0.04	0.04½	0.03
90 lb. metal reinforcement	0.04	0.04	0.048	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.025
6900 lb. iron castings—plain	0.04	0.03½	0.048	0.04	0.04	0.035	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
5900 lb. iron castings—machined	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03
250 lin.ft. wooden fence	0.25	0.25	0.30	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.30	0.24	0.25	0.25	0.25	0.20
Maintaining navigation (lump sum)	300.00	300.00	600.00	100.00	50.00	500.00	300.00	500.00	250.00	500.00	450.00	100.00	500.00	100.00	100.00	250.00	300.00
Cofferdams, pumping, bailing and draining (lump sum)	2000.00	2000.00	3600.00	500.00	1500.00	3000.00	2000.00	3000.00	$2500.00	$2300.00	$3000.00	$2500.00	$1000.00	$500.00	$500.00	$3000.00	$1000.00
Extended totals	$56,205	$52,306	$57,992	$50,312	$50,732	$56,204	$55,088	$52,473	$51,934	$53,963	$577.33	$54,846	$42,743	$48,239	$48,561	$51,204	$60,028

BUILDINGS

(Continued from page 27.)

Wilmington, Del.—Bids will be received until Mar. 25, by John K. Kennedy, Arch., Ford Bldg., for the construction of a 50x100-ft. four-story building for the Knights of Columbus. Estimated cost $40,000.

Washington, D. C.—Plans are being prepared by Hunter & Bell, 1421 H St. N. W., for the construction of a seven-story apartment house on Connecticut and Wyoming Ave. Estimated cost $400,000.

Washington, D. C.—Flournoy & Flournoy, Wilkins Bldg., are preparing plans for the construction of a school and dormitories at the Stonewall Jackson Institute. Estimated cost, $100,000.

+Pocahontas, Va.—(Official)—Thomas Bros., Inc., Marion, Va., has awarded a contract to CARLIN, CLARK & WALKER, BRAMWELL, W. Va., for reconstructing the store building recently destroyed by fire.

Richmond Va.—East & Hobbs, Norfolk, plan to construct a five-story apartment house at Monument Ave., and Boulevard. Estimated cost, $175,000.

Richmond, Va.—Carneal & Johnston are preparing plans for the construction of a three-story building for the Richmond Lodge No. 45, B. P. O. E. Estimated cost $50,000.

Asheville, N. C.—The Asheville Farm School recently destroyed by fire will be rebuilt at a cost of $40,000.

+Spartanburg, S. C.—The contract for the construction of a building for the First National Bank, Magnolia St. and Morgan Sq. has been awarded to WILLARD BOGGS & CO., at $60,000. Noted Dec. 10.

+Louisville, Ky.—The contract for the construction of a building for the Bourbon Stockyards Co., has been awarded to the BLANE-SINK CO., Chicago, Ill., at $130,000. D. X. Murphy is Arch.

Canton, Ohio—Bids will be received about Mar. 15 by M. L. Pearce, Phillips Bible Institute, for the construction of a three-story and basement administration building. Estimated cost, $120,000. M. T. Mills, McCune Bldg., Columbus, is Arch.

+Cleveland, Ohio—The contract for the construction of a five-story addition to the Charity Hospital at Central and East 22d St., has been awarded to C. A. CARSON, 6408 Euclid Ave. Estimated cost, $200,000. Noted Oct. 15 and Nov. 5.

Fremont, Ohio—(Official)—The proposition to issue bonds for $400,000 for the construction of a court house has been defeated. No further action will be taken for at least a year. V. L. Hasselbach is Clk. of County Comn. Noted Dec. 24.

Norwalk, Ohio—The Masonic Lodge plans the construction of a three-story brick building at Norwalk. Estimated cost, $40,000. L. C. Herrick is interested.

Warrensville, Ohio—Plans are being prepared by J. Milton Dyer, Arch., 825 Cuyahoga Bldg., Cleveland, for the construction of a reinforced-concrete hospital. Estimated cost, $100,000. Bids will be received in spring.

Indianapolis, Ind.—Bids will be received about Feb. 10 by the Library Committee, Indianapolis, for the construction of $500,000 library. Paul P. Cret and Zantzinger, Borie & Medary, 15th and Walnut St., are Associate Archs. Noted Feb. 12, Apr. 23 and July 9.

Saginaw, Mich.—The Saginaw Hippodrome Amusement Co., recently incorporated with a capital of $150,000, for the construction of a theater, with a seating capacity of 1600. Peter Wiederhold is Pres.

Chicago, Ill.—Bids are being received on revised plans for the construction of a three-story 80x234-ft. building at 47th and Ellis Ave. for Scherman T. Cooper, 8 South Dearborn St. Estimated cost, $80,000. Albert Lang, 7 West Madison St., is Arch.

+Menomonie, Wis.—The general contract for the construction of the five-story 125x228-ft. Domestic Science Building, at the Stout Institute has been awarded to MADSEN BROS., Plymouth Bldg., Minneapolis, Minn. Estimated cost, $200,000.

Milwaukee, Wis.—The Board of Directors of the St. John's Home for Old Ladies, 640 Cass St., plan the construction of a $60,000 building on Prospect Ave. and Bradford St. Mrs. M. L. Rinsdale is Secy.

Milwaukee, Wis.—Bids are being received by Martin Tullgren & Co., Archs., 133 Second St., for the construction of a three-story, 90x200-ft. apartment house at Grand Ave. and 21st St. Estimated cost, $100,000. Noted Oct. 15.

Milwaukee, Wis.—Bids will be received about Feb. 1 by Leenhouts & Guthrie, Archs., 421 Jefferson St., for the construction of a four-story, 34x140-ft. apartment house on 12th St., between Grand Ave. and Wells St., for Frank C. Courtenay and Charles Gilman. Estimated cost, $60,000. Noted Jan. 7.

Racine, Wis.—Revised plans are being prepared by Guilbert & Funston, Archs., Robinson Blk., for the construction of a three-story and basement school. Estimated cost, $80,000. Noted Oct. 29.

Rhinelander, Wis.—Bids will be received until Mar. 1 for the construction of a three-story and basement hotel for George B. Herman, Antigo, Wis. Estimated cost, $75,000.

Stevens Point, Wis.—The State Normal School will construct a 150x150x264-ft. dormitory on Main, Fremont St. and East Normal Ave. The estimated cost is $100,000. George B. Nelson is Regent.

Superior, Wis.—The Wisconsin Telephone Co., 185 Fifth St., Milwaukee, recently purchased a site 50x140 ft., for the construction of an exchange building. Estimated cost, $50,000.

Superior, Wis.—G. G. Newton & Co. have purchased a site at 11th and Tower St. for the construction of a $250,000 hotel. J. C. Crowley, Pres. of Rotary Club, is interested.

Brooklyn, Iowa—Plans have been prepared by Reimer & Herdin, Archs., Marshalltown, for construction of a three-story, 74x120-ft. hotel for F. Dewey. Estimated cost, $50,000.

Iowa City, Iowa—Plans are being prepared by Proudfoot, Bird & Rawson, Archs., Hubbell Bldg., Des Moines, for the construction of the Hall of Dentistry, at the Iowa University. Estimated cost, $100,000. Noted Dec. 10.

Sioux City, Iowa—The Elks Lodge plans the construction of a club house, estimated to cost $150,000.

Sioux City, Iowa—Plans are being prepared by W. L. Steele, Arch., for the construction of a court house to cost about $500,000. Noted Dec. 25, 1913.

Sioux City, Iowa—The Directors of the St. Vincent Hospital plan to construct a $100,000 building.

Sioux City, Iowa—George C. Call will construct a $60,000 addition to the Jackson Hotel, at Sioux City.

Duluth, Minn.—Bids will be received about Jan. 20 by Kelly & Williams, Archs., 402 First National Bank Bldg., for the construction of a four-story, 145x200-ft. fireproof armory on London Rd. and 13th Ave. East. Noted Dec. 31.

Kenyon, Minn.—Bonds will soon be voted for the construction of a high and grade school, estimated to cost $50,000. C. J. E. Holmen is Clk.

Ortonville, Minn.—Plans are being prepared by Alban & Lockhart, Archs., Endicott Bldg., St. Paul, for the construction of a fireproof high and grade school. The estimated cost is $50,000. Robert Hunter is Clk.

+St. Paul, Minn.—The construction of the five-story, 75x112-ft. fireproof Emporium department store on Seventh and Robert St., will begin about Apr. 1. Estimated cost, $200,000. The steel contract was awarded to the ST. PAUL FOUNDRY CO., and the contract for the terra cotta work to the AMERICAN TERRA COTTA CO. Angus McLeod is Pres. of the Emporium Co.

Kearney, Neb.—The State Normal Board is having plans prepared for the construction of an auditorium and a gymnasium. The estimated cost is $85,000.

Castlewood, S. D.—The county contemplates the issuing of $60,000 in bonds for the construction of a county court house and jail. Guy Osborn is County Audr.

+Helena, Mont.—The contract for the construction of the Masonic Temple has been awarded to GAGNON & CO., Billings. Estimated cost, $82,000. C. S. Haire is Arch.

Columbus, Mo.—The Board of Curators will petition the State Legislature for a biennial budget of $1,500,000. The amount will be used for the improvement of school buildings and extensions to the University of Missouri. Some of the expenditures for the university are as follows: A building and gymnasium for women, to be constructed at $85,000; the Horticultural Building, to be enlarged, $40,000; the Mechanics-Arts Hall Building, recently destroyed by fire, will be rebuilt, $50,000; Missouri School of Mines and Metallurgy, Rolla, Mo., improvements, $225,000. A. Ross Hill is Pres. of University of Missouri.

Little Rock, Ark.—The city plans the construction of a hospital to cost about $150,000. Charles E. Taylor is Mayor and F. M. Oliver is Clk.

Tucson, Ariz.—Bonds have been voted by the city for the construction of a $50,000 city hall. L. O. Cowan is City Clk.

Olympia, Wash.—Plans are being prepared by V. W. Voorhees, Arch., Eitel Bldg., Seattle, for the construction of a seven-story hotel at Sixth and Franklin St., for the Olympia Hotel Co. Estimated cost, $100,000.

Seattle, Wash.—Bids are being received by the Sound Construction & Engineering Co., Lowman Bldg., for the mill and ornamental iron work on the $350,000 Ballard High School. Noted Feb. 12 and Sept. 17.

Spokane, Wash.—Bids for the construction of the county tuberculosis sanatorium at Edgecliffe were received as follows: J. E. Cunningham, $45,187; J. M. Yeaman, $54,000; Guthrie-McDougal Co., $46,935; John T. Huteter, $64,000; Hartness & Norris, $51,848; Carl W. Anderson, $50,990; N. Norman, $57,937; F. E. Paterson, $53,150; Alloway & George, $57,000; George Groschoft, $51,680; J. B. Sweat & Co., $52,433; Charles Jasper, $60,500. The lowest bidder for heating was the Blair-Meagher Co., at $10,075. Noted Dec. 31.

Walla Walla, Wash.—A. W. Eller, Mgr. of the Bijou Theater, plans the construction of a building to cost $60,000.

Walla Walla, Wash.—Plans have been prepared by George H. Purvis, Seattle, for the construction of a building for Clarence Crews, Mgr. of the Dime Theater. Estimated cost, $50,000.

Montreal, Que.—Bids will be received about Jan. 30 by E. Payette, Arch., 163 St. Francois Xavier St., for the construction of a public library on Sherbrooke and Montcalm St. Estimated cost, $200,000. Noted Oct. 29.

Guelph, Ont.—The citizens have voted against the proposition to construct a $125,000 addition to the Collegiate Institute. Noted Dec. 17.

Vancouver, B. C.—Plans are being prepared by Thomas Kerner and M. Matocks for the construction of the proposed civic center. The estimated cost is $2,500,000. Noted Sept. 17.

Vancouver, B. C.—Plans are being prepared by A. A. Cox, Carter Cotton Bldg., for the construction of an addition to the Vancouver General Hospital at 12th and Willow St. The estimated cost $85,000.

CONTRACT PRICE

INTERCEPTING SEWER, NEWARK, N. J.

Section 18—Central Portion

Bids were received Jan. 5 by the Passaic Valley Sewerage Commissioners for constructing Section 18, central portion, of the Main Intercepting Sewer, from (A) Fusco Construction Co., Newark; (B) Harrison & Craig Co., Newark; (C) New York & New Jersey Construction Co., Newark; (D) Mason Hilton & Co., New York, N. Y. The item bids were as follows:

	A	B	C	D
5000 lin.ft. earth excavation and refilling, in trench for 65-in. concrete sewer.....	$37.00	$27.80	$26.00	$23.20
9000 cu.yd. rock excavation.	0.01	3.00	0.01	1.00
3800 cu.yd. concrete masonry	8.50	8.50	9.00	8.00
150 cu.yd. brick masonry and appurtenant work in manholes	20.00	15.00	15.00	20.00
1000 lb. steel for concrete reinforcement	0.05	0.05	0.03	0.05
Extended totals	$220,440	$200,600	$166,570	$158,450